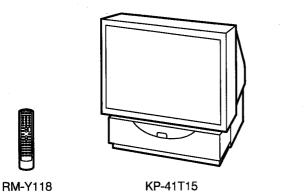
### **SERVICE MANUAL**

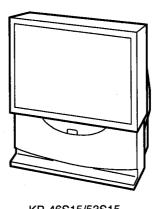
RA-1 **CHASSIS** 

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-41T15	RM-Y118	us	SCC-H53A-A	KP-53S15	RM-Y118	us	SCC-H53C-A
KP-41T15	RM-Y118	CND	SCC-H58A-A	KP-53S15	RM-Y118	CND	SCC-H58C-A
KP-46S15	RM-Y118	us	SCC-H53B-A				
KP-46S15	RM-Y118	CND	SCC-H58B-A				

<sup>1.</sup> Adjustment Manual for this model is separately published.

	Adjustment Manual
Part No.	9-965-043-01





KP-46S15/53S15



**COLOR REAR VIDEO PROJECTOR** SONY

### KP-41T15/46S15/53S15 RM-Y118 RM-Y118 RM-Y118

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Les composants identifies par une trame et une marque \(\hat{L}\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	< <b>c</b> 011	<b>,&gt;</b>				R1616	1-214-673-00 1-214-673-00 1-214-673-00	METAL	4.7 4.7 4.7	1%	1/4W 1/4W 1/4W
L1502 L1503 L1515	1-412-533-21 1-412-533-21 1-412-524-11 1-410-470-11 1-410-482-31	INDUCTOR INDUCTOR INDUCTOR	47UH 47UH 8.2UH 10UH 100UH			R1620 R1621 R1622 R1623	1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00 1-214-729-00	METAL METAL METAL METAL	4.7	1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
L1801 L1802	1-406-975-21 1-406-975-21	INDUCTOR COIL, CHOKE 47U	10UH H H			R1624 R1625 R1626 R1627 R1628	1-214-729-00 1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00	METAL METAL METAL METAL METAL	1K 4.7 4.7 4.7 4.7	1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
	<trai< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R1629</td><td>1-214-673-00</td><td>MRTAL</td><td>4.7</td><td>1%</td><td>1/4W</td></trai<>	NSISTOR>				R1629	1-214-673-00	MRTAL	4.7	1%	1/4W
Q1501 Q1502 Q1551 Q1552 Q1701	8-729-120-28 8-729-120-28 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2SCI TRANSISTOR 2SCI TRANSISTOR 2SAI TRANSISTOR 2SCI TRANSISTOR 2SCI	623-L5L6 623-L5L6 162-G 623-L5L6 623-L5L6			R1630 R1631 R1632 R1633	1-214-673-00 1-214-729-00 1-214-673-00 1-214-673-00	METAL METAL METAL METAL	4.7 1K 4.7 4.7	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W
Q1801 Q1802 Q1803 Q1804	8-729-120-28 8-729-216-22 8-729-900-36 8-729-120-28	TRANSISTOR 2SCI- TRANSISTOR DTCI TRANSISTOR 2SCI- TRANSISTOR DTCI TRANSISTOR DTCI TRANSISTOR DTCI	623-L5L6 162-G 24ES 623-L5L6			R1634 R1635 R1636 R1637 R1638	1-214-729-00 1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00	METAL METAL METAL METAL METAL	4.7 4.7 4.7	1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
COSTP		ISTOR>	2465			R1641	1-214-673-00	METAL METAL	4.7 4.7 4.7	1% 1% 1%	1/4W 1/4W 1/4W 1/4W
	1-216-049-00	METAL GLAZE 1	K 5%	1/100		R1643/	L i-202-967-91	FUSIBLE	0.1	ĬÖX	L/6¥
R1504 R1505 R1506	1-208-814-11 1-216-081-00 1-216-085-00 1-216-049-00	METAL GLAZE 2 METAL GLAZE 3 METAL GLAZE 1	2K 5% 3K 5% K 5%	1/10W 1/10W 1/10W 1/10W		R16452 R16462 R16472	L 1-202-967-91 L 1-202-967-91 L 1-202-967-91	FUSTBLE FUSTBLE	0.1 0.1 0.1	10% 10% 10%	1/6W 1/6W 1/6W 1/6W
R1508	1-208-814-11 1-216-057-00	METAL GLAZE 2	2.2K 5%	1/10W 1/10W		[	<b>L</b> 1-202-967-91			10%	1/6₩
R1509/ R1510 R1511	N 1-249-383-91 1-214-671-91 1-214-671-71 1-215-914-11	METAL 3 METAL 3	3.9 1% 3.9 1%	1/4W 1/4W 3W	F	R1721 R1737 R1740	1-216-033-00 1-216-033-00 1-216-033-00 1-216-025-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 100 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1513 R1514 R1515 R1516	1-214-671-71 1-216-632-11 1-216-639-11 1-214-671-71	METAL CHIP 1 METAL CHIP 3 METAL 3	160 0.50 330 0.50 3.9 1%	1/4W % 1/10W % 1/10W 1/4W		R1749 R1751 R1752 R1760	1-216-295-00 1-216-081-00 1-216-073-00 1-216-295-00	CONDUCTOR, C METAL GLAZE METAL GLAZE CONDUCTOR, C	HIP 22K 10K HIP		1/10W 1/10W
R1517 R1518	1-216-647-11 1-216-665-11	METAL CHIP 6	580 0.50 3.9K 0.50	% 1/10W % 1/10W		R1788	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R1519/ R1520/ R1521 R1522	1-249-385-91 1-249-385-91 1-216-049-00 1-216-049-00	CARBON CARBON METAL GLAZE  METAL GLAZE	2.2 5% 12.2 5% 1K 5% 1K 5%	1/4W 1/4W 1/10W 1/10W	ŗ	R1801 R1802 R1803 R1804 R1805	1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 10K 2.2K 6.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	1-216-081-00 1-216-063-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 5% 3.9K 5% 15K 5%	1/10W 1/10W 1/10W 1/10W		R1806 R1807 R1808 R1809	1-216-075-00 1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 12K 1K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1554 R1559 R1562 R1603 R1604	1-216-025-00 1-216-663-11	METAL GLAZE METAL GLAZE METAL CHIP	1K 5% 10K 5% 100 5% 3.3K 0.50 3.3K 0.50	1/10W 1/10W 1/10W 1/10W 1/10W	 	R1810 R1811 R1812 R1813 R1814	1-216-081-00 1-216-097-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 22K 100K 2.2K 100K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1605 R1606 R1607 R1608 R1610	1-216-663-11 1-216-663-11 1-216-663-11	METAL CHIP METAL CHIP METAL CHIP	3.3K 0.50 3.3K 0.50	0% 1/10W 0% 1/10W 0% 1/10W 0% 1/10W 1/4W	) )	R1815 R1816 R1817	1-216-697-91 1-216-097-00 1-216-033-00 1-216-025-00	METAL CHIP  METAL GLAZE  METAL GLAZE  METAL GLAZE	100K 100K 220 100 100	0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1612 R1613	1-214-729-00 1-214-673-00	METAL Metal	1K 1% 4.7 1%	1/4W 1/4W		R1820			100	5% 5%	1/10W

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque \(\Lambda\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R1821 1-216-097-0 R1823 1-208-811-1 R1824 1-216-685-1 R1825 1-216-685-1 R1826 1-216-685-1	00 METAL GLAZE 100K 11 METAL CHIP 16K 11 METAL CHIP 27K 11 METAL CHIP 27K 11 METAL CHIP 27K	5% 1/10W 0.50% 1/10W 0.50% 1/10W 0.50% 1/10W 0.50% 1/10W		R1888 R1889 R1890 R1891 R1892	1-216-651-11 1-216-651-11 1-216-125-00 1-208-806-11 1-216-067-00	METAL CHIP METAL CHIP METAL GLAZE METAL CHIP METAL GLAZE	1K 0.500 1K 0.500 1.5M 5% 10K 0.500 5.6K 5%	REMARK
R1827 1-216-685-1 R1828 1-216-685-1 R1829 1-216-685-1 R1830 1-216-025-( R1831 1-216-049-(	II METAL CHIP 27K II METAL CHIP 27K II METAL CHIP 27K OO METAL GLAZE 100 OO METAL GLAZE 1K	0.50% 1/10W 0.50% 1/10W 0.50% 1/10W 5% 1/10W 5% 1/10W		R1893 R1894a R1895 R18964	1-216-097-00 1-249-389-91 1-216-043-91 1-249-389-91	METAL GLAZE  CARBON  METAL GLAZE  CARBON	100K 5% 4.7 5% 560 5% 4.7 5%	1/10W 1/4W F 1/10W 1/4W F
R1832 1-216-677-1 R1833 1-216-049-0 R1834 1-216-049-0 R1835 1-216-025-0 R1836 1-216-081-0	NETAL CHIP 12K DO METAL GLAZE 1K DO METAL GLAZE 1K DO METAL GLAZE 100 DO METAL GLAZE 22K	0.50% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		R1897 R1898 R1899 R1900 R1901	1-216-097-00 1-216-057-00 1-216-097-00 1-216-033-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 5% 2.2K 5% 100K 5% 220 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1837 1-208-806- R1838 1-216-651- R1839 1-216-031- R1840 1-208-806- R1841 1-208-806-	11 METAL CHIP 10K 11 METAL CHIP 1K 100 METAL GLAZE 180 11 METAL CHIP 10K 11 METAL CHIP 10K	0.50% 1/10W 0.50% 1/10W 5% 1/10W 0.50% 1/10W 0.50% 1/10W		R1902 R1903 R1904 R1905 R1907	1-216-025-00 1-216-025-00 1-216-025-00 1-216-097-00 1-208-810-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	100 5% 100 5% 100 5% 100K 5% 15K 0.50	1/10W 1/10W 1/10W 1/10W % 1/10W
R1842 1-216-025-1 R1843 1-216-651- R1844 1-216-025-1 R1845 1-216-077-1 R1846 1-216-125-1	00 METAL GLAZE 100 11 METAL CHIP 1K 00 METAL GLAZE 100 00 METAL GLAZE 15K 00 METAL GLAZE 1.5M	5% 1/10W 0.50% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	Ÿ.	R1908 R1909 R1910 R1911 R1912	1-208-814-11 1-216-025-00 1-216-685-11 1-216-685-11 1-216-685-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	27K 0.50 27K 0.50 27K 0.50 27K 0.50	% 1/10W % 1/10W % 1/10W % 1/10W
R1847 1-208-806- R1848 1-216-077- R1849 1-216-067- R1850 1-216-097- R1851 1-216-043-	11 METAL CHIP 10K 00 METAL GLAZE 15K 00 METAL GLAZE 5.6K 00 METAL GLAZE 100K 91 METAL GLAZE 560	0.50% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		R1914 R1915 R1916 R1917	1-216-685-11 1-216-685-11 1-216-685-11 1-216-025-00 1-208-806-11	METAL CHIP METAL CHIP METAL GLAZE METAL CHIP	27K 0.50 27K 0.50 27K 0.50 100 5% 10K 0.50	% 1/10W % 1/10W 1/10W 1/10W 1/10W
R1855 1-216-097-	00 METAL GLAZE 100M 00 METAL GLAZE 2.2M 00 METAL GLAZE 100 00 METAL GLAZE 100M 00 METAL GLAZE 100M	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		R1919 R1920 R1923 R1925	1-216-651-11 1-208-822-11 1-216-651-11 1-216-677-11 1-216-031-00	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	1K 0.50 1K 0.50 12K 0.50 180 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1857 1-216-033- R1858 1-216-097- R1859 1-216-025- R1860 1-216-025- R1861 1-216-473-	00 METAL GLAZE 220 00 METAL GLAZE 1001 00 METAL GLAZE 100 00 METAL GLAZE 100 11 METAL OXIDE 56	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 3W	F	R1928 R1931 R1935	1-208-806-11 1-216-125-00 1-208-806-11 1-216-698-11 1-218-766-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	1.5M 5%  1.5M 5%  10K 0.50  91K 0.50  390K 0.50	1/10W 1/10W 0% 1/10W 0% 1/10W 0% 1/10W
R1862 1-216-473- R1863 1-216-025- R1864 1-216-025- R1865 1-216-473- R1866 1-216-473-		5% 3W 5% 1/10W 5% 1/10W 5% 3W 5% 3W	i.	R1942	1-208-806-11	METAL CHIP	10K 0.50	0% 1/10W
R1868 1-216-025- R1869 1-216-685- R1870 1-216-685- R1871 1-216-685- R1872 1-216-685-	-11 METAL CHIP 27K -11 METAL CHIP 27K -11 METAL CHIP 27K	5% 1/10W 0.50% 1/10W 0.50% 1/10W 0.50% 1/10W 0.50% 1/10W	  -  -	R1944 R1947 R1948 R1949	1-208-806-11 1-216-073-00 1-216-093-00 1-216-659-11	METAL CHIP  METAL GLAZE  METAL GLAZE  METAL CHIP	10K 0.56 10K 5% 68K 5% 2.2K 0.5	0% 1/10W 1/10W 1/10W 0% 1/10W
R1873 1-216-685- R1874 1-216-685- R1875 1-208-824- R1876 1-216-025- R1877 1-208-810-	-11 METAL CHIP 27K -11 METAL CHIP 56K -00 METAL GLAZE 100	0.50% 1/10% 0.50% 1/10% 0.50% 1/10% 5% 1/10% 0.50% 1/10%	)   	R1950 R1951 R1952 R1954 R1955	1-216-659-11 1-208-806-11 1-208-806-11 1-208-806-11 1-208-806-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 0.5 10K 0.5 10K 0.5 10K 0.5	0% 1/10W 0% 1/10W 0% 1/10W 0% 1/10W 0% 1/10W
R1878 1-208-806 R1879 1-216-685 R1880 1-218-768 R1881 1-216-295 R1883 1-216-677	-11 METAL CHIP 27K -11 METAL CHIP 470 -00 CONDUCTOR, CHIP	0.50% 1/10W K 0.50% 1/10W	)	R1956 R1957 R1958 R1959 R1960	1-208-824-11 1-208-806-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	56K 0.5 5.6K 0.5 56K 0.5 10K 0.5	0% 1/10W 0% 1/10W 0% 1/10W 0% 1/10W 0% 1/10W
R1884 1-208-806 R1885 1-216-049 R1886 1-216-031 R1887 1-208-806	-11 METAL CHIP 10K -00 METAL GLAZE 1K -00 METAL GLAZE 180	0.50% 1/10% 5% 1/10% 5% 1/10%	) ) )	R1961 R1962 R1963 R1964	1-216-077-00	) METAL GLAZE ) METAL GLAZE	10K 0.5 15K 5% 10K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W

### KP-41T15/46S15/53S15 RM-Y118 RM-Y118 RM-Y118



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1965 1-216-073-00 R1966 1-216-073-00 R1967 1-216-071-00 R1970 1-208-774-11 R1971 1-216-667-11	METAL GLAZE 10K METAL GLAZE 8.2K METAL CHIP 470 METAL CHIP 4.7K	5% 1/10 0.50% 1/10 0.50% 1/10	)W )W )W	S1302 S1303 S1304	1-571-731-11 1-571-731-11 1-571-731-11 1-571-731-11 1-571-731-11	SWITCH, TACTI SWITCH, TACTI SWITCH, TACTI	L L L		
R1981 1-216-473-11 R1982 1-216-473-11 R1983 1-216-077-00 R1984 1-216-077-00 R1985 1-216-025-00	METAL OXIDE 56 METAL OXIDE 56 METAL GLAZE 15K METAL GLAZE 15K METAL GLAZE 100		F F WC WC WC	S1306 S1307	1-571-731-11 1-571-731-11	SWITCH, TACTI SWITCH, TACTI	L L	*****	*****
<the< td=""><td>RMISTOR&gt;</td><td></td><td></td><td>!  </td><td>*A-1373-511-A</td><td>U BOARD, COMF</td><td></td><td></td><td></td></the<>	RMISTOR>			! 	*A-1373-511-A	U BOARD, COMF			
TH1501 1-807-925-11 TH1801 1-808-269-11				i   	1-923-505-16	WIRE UL1007 A	WG24 70MM I	BRN	
<cry< td=""><td>STAL&gt;</td><td></td><td></td><td></td><td><cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td></cap<></td></cry<>	STAL>				<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td></cap<>	ACITOR>			
X1701 1-579-917-11	VIBRATOR, CRYSTAL	******	*******	C1102 C1103 C1104	1-128-551-11 1-124-903-11 1-124-903-11 1-163-031-11 1-128-551-11	ELECT ELECT CERAMIC CHIP	22MF 1MF 1MF 0.01MF 22MF	20% 20% 20% 20%	50V 50V 50V 50V 50V
*A-1372-099-A	HA BOARD, COMPLETE			1			22MF	20%	50 <b>V</b>
<cap C1301 1-126-964-11</cap 	ACITOR> BLECT 10MF	20%	50 <b>V</b>	C1107 C1108 C1109 C1110	1-128-551-11 1-124-903-11 1-124-903-11 1-128-551-11 1-124-903-11	ELECT ELECT ELECT ELECT	IMF IMF 22MF IMF	20% 20% 20% 20%	50V 50V 50V 50V
C1304 1-126-964-11		20%	50V	C1121 C1122 C1123	1-124-903-11 1-126-935-11 1-163-117-00 1-124-903-11	ELECT CERAMIC CHIP ELECT	1MF	20% 20% 5% 20%	50V 16V 50V 50V
CN1346 1-564-524-11 CN1347*1-564-521-11				C1125	1-128-551-11 1-124-903-11	ELECT	22MF 1MF	20% 20%	50V 50V
<010	DE>			C1126 C1127 C1128	1-104-665-11 1-104-663-11 1-163-117-00 1-124-902-00	BLECT ELECT CERAMIC CHIP	100MF 33MF 100PF 0.47MF	20% 20% 5% 20%	25V 25V 50V 50V
D1304 8-719-053-43 D1305 8-719-053-43	DIODE SLR-325VCT31			C1134	1-128-551-11 1-104-665-11 1-128-551-11	ELECT	22MF 100MF 22MF	20% 20% 20%	50V 25V 50V
<ic> IC1301 8-741-780-51</ic>				C1137	1-164-232-11 1-124-902-00	CERAMIC CHIP	0.01MF 0.47MF	10% 20%	50V 50V
JAC				C1145	1-126-964-11 1-128-499-11 1-124-902-00	ELECT Elect	10MF 220MF 0.47MF	20% 20% 20%	50V 16V 50V
J1301 1-750-517-11	JACK BLOCK, PIN 3P			C1147 C1148		ELECT ELECT	0.47MF 0.47MF	20% 20%	50V 50V
•	ISTOR>			C1149 C1150 C1151	1-124-902-00 1-128-499-11 1-128-499-11	ELECT ELECT ELECT	0.47MF 220MF 220MF	20% 20% 20%	50V 16V 16V
R1302 1-249-416-11 R1303 1-249-417-11 R1304 1-249-425-11 R1305 1-249-411-11	CARBON 1K CARBON 4.7K CARBON 330	5% 1/4	W W W	C1152	1-128-499-11 1-104-665-11		220MF 100MF	20% 20%	16V 25V
R1306 1-249-411-11 R1307 1-249-420-11	CARBON 330 CARBON 1.8K			CW1101	FII> 1-466-912-21	TER BLOCK>	CO <b>N</b> B		
R1308 1-247-895-00 R1309 1-247-895-00 R1310 1-249-429-11 R1311 1-247-815-91	CARBON 470K CARBON 470K CARBON 10K CARBON 220	5% 1/4	W W	CHITO		VNECTOR>	, comb		
R1312 1-247-804-11 R1314 1-247-807-31	CARBON 75	5% 1/4 5% 1/4	W	CN1150	7*1-564-509-11 0 1-573-300-21 5*1-565-928-11 5*1-566-641-11	CONNECTOR, B	OARD TO BOA UB) 30P		
<sw)< td=""><td>TCH&gt;</td><td></td><td></td><td></td><td></td><td>in the second se</td><td> (*********************************</td><td>=</td><td></td></sw)<>	TCH>					in the second se	(*********************************	=	



D1101   8-719-110-17   D10DE BD10ESB2   D1102   8-719-110-17   D10DE BD10ESB2   R102   1-216-065-00   METAL GLAZE   4.7K   5%   1/10W   D1104   8-719-110-17   D10DE BD10ESB2   R102   1-216-065-00   METAL GLAZE   4.7K   5%   1/10W   D1105   8-719-110-17   D10DE BD10ESB2   R103   1-247-804-11   CABBON   75   5%   1/4W   CABBON   75   75   75   75   75   75   75   7
D1102 8-719-110-17   D10DE RD10ESB2   D1103 8-719-110-17   D10DE RD10ESB2   D1103 8-719-110-17   D10DE RD10ESB2   R1101 1-216-065-00   METAL GLAZE 4.7K 5% 1/10W   D1105 8-719-110-17   D10DE RD10ESB2   R1103 1-247-804-11   CARBON 75 5% 1/4W   R1104 1-216-065-00   METAL GLAZE 4.7K 5% 1/10W   R1107 8-719-110-17   D10DE RD10ESB2   R1103 1-247-804-11   CARBON 75 5% 1/4W   R1104 1-216-065-00   METAL GLAZE 4.7K 5% 1/10W   R1107 8-719-110-17   D10DE RD10ESB2   R1106 1-247-804-11   CARBON 75 5% 1/4W   D1107 8-719-110-17   D10DE RD10ESB2   R1106 1-247-804-11   CARBON 75 5% 1/4W   D1109 8-719-110-17   D10DE RD10ESB2   R1106 1-247-804-11   CARBON 75 5% 1/4W   D1111 8-719-110-17   D10DE RD10ESB2   R1107 1-216-113-00   METAL GLAZE 4.7K 5% 1/10W   R1109 1-216-113-00   METAL GLAZE 4.7K 5% 1/10W   R1109 1-216-113-00   METAL GLAZE 4.7K 5% 1/10W   D1113 8-719-110-17   D10DE RD10ESB2   R1101 1-216-065-00   METAL GLAZE 4.7K 5% 1/10W   D1114 8-719-110-17   D10DE RD10ESB2   R1111 1-216-065-00   METAL GLAZE 4.7K 5% 1/10W   D1116 8-719-110-17   D10DE RD10ESB2   R1111 1-216-065-00   METAL GLAZE 4.7K 5% 1/10W   D1116 8-719-110-17   D10DE RD10ESB2   R1111 1-216-065-00   METAL GLAZE 4.7K 5% 1/10W   D1118 8-719-110-17   D10DE RD10ESB2   R1111 1-216-065-00   METAL GLAZE 4.7K 5% 1/10W   D1118 8-719-110-17   D10DE RD10ESB2   R1111 1-216-065-00   METAL GLAZE 4.7K 5% 1/10W   D1112 8-719-110-17   D10DE RD10ESB2   R1113 1-247-804-11   CARBON 75 5% 1/4W   R1114 1-216-113-00   METAL GLAZE 4.7K 5% 1/10W   D1112 8-719-110-17   D10DE RD10ESB2   R1113 1-247-804-11   CARBON 75 5% 1/4W   R1114 1-216-113-00   METAL GLAZE 4.7K 5% 1/10W   D1112 8-719-110-17   D10DE RD10ESB2   R1118 1-216-095-00   METAL GLAZE 4.7K 5% 1/10W   D1112 8-719-110-36   D10DE RD10ESB2   R1118 1-216-095-00   METAL GLAZE 82K 5% 1/10W   D1122 8-719-110-36   D10DE RD13ESB2   R1118 1-216-095-00   METAL GLAZE 82K 5% 1/10W   D1124 8-719-110-36   D10DE RD13ESB2   R1112 1-216-025-00   METAL GLAZE 82K 5% 1/10W   D1124 8-719-110-36   D10DE RD13ESB2   R1120 1-216-025-00   METAL GLAZE 82K 5% 1/
D1107 8-719-110-17   D10DE RD10ESB2   R1106 1-247-804-11   CARBON   75   5%   1/4W
D1112 8-719-110-17 D10DE RD10ESB2 D1114 8-719-110-17 D10DE RD10ESB2 D1115 8-719-110-17 D10DE RD10ESB2 D1116 8-719-110-17 D10DE RD10ESB2 D1117 8-719-110-17 D10DE RD10ESB2 D1118 8-719-110-17 D10DE RD10ESB2 D1118 8-719-110-17 D10DE RD10ESB2 D1118 8-719-110-17 D10DE RD10ESB2 D1120 8-719-110-17 D10DE RD10ESB2 D1121 8-719-110-36 D10DE RD10ESB2 D1122 8-719-110-36 D10DE RD13ESB2 D1123 8-719-110-36 D10DE RD13ESB2 D1124 8-719-110-36 D10DE RD13ESB2 D1124 8-719-110-36 D10DE RD13ESB2 D1125 8-719-110-36 D10DE RD13ESB2 D1126 8-719-110-36 D10DE RD13ESB2 D1127 1-216-025-00 METAL GLAZE 82K 5% 1/10W D1128 8-719-110-36 D10DE RD13ESB2 D1129 8-719-110-36 D10DE RD13ESB2 D1120 8-719-110-36 D10DE RD13ESB2 D1121 8-719-110-36 D10DE RD13ESB2 D1122 8-719-110-36 D10DE RD13ESB2 D1124 8-719-110-36 D10DE RD13ESB2 D1125 8-719-110-36 D10DE RD13ESB2 D1126 8-719-110-36 D10DE RD13ESB2 D1127 1-216-025-00 METAL GLAZE 100 5% 1/10W D1128 8-719-110-36 D10DE RD13ESB2 D1129 8-719-110-36 D10DE RD13ESB2 D1120 1-216-025-00 METAL GLAZE 100 5% 1/10W D1121 8-719-110-36 D10DE RD13ESB2 D1127 1-216-041-00 METAL GLAZE 100 5% 1/10W D1128 8-719-110-36 D10DE RD13ESB2 D1129 8-719-110-36 D10DE RD13ESB2
D1117 8-719-110-17 D10DE RD10ESB2 R1115 1-216-113-00 METAL GLAZE 470K 5% 1/10W D1128 8-719-110-17 D10DE RD10ESB2 R1115 1-216-095-00 METAL GLAZE 82K 5% 1/10W D1121 8-719-110-36 D10DE RD13ESB2 R1117 1-216-095-00 METAL GLAZE 82K 5% 1/10W D1123 8-719-110-36 D10DE RD13ESB2 R1118 1-216-095-00 METAL GLAZE 82K 5% 1/10W D1123 8-719-110-36 D10DE RD13ESB2 R1118 1-216-025-00 METAL GLAZE 100 5% 1/10W D1123 8-719-110-36 D10DE RD13ESB2 R1120 1-216-025-00 METAL GLAZE 100 5% 1/10W D1124 8-719-110-36 D10DE RD13ESB2 R1120 1-216-025-00 METAL GLAZE 100 5% 1/10W D1124 8-719-110-36 D10DE RD13ESB2 R1120 1-216-025-00 METAL GLAZE 100 5% 1/10W D1124 8-719-110-36 D10DE RD13ESB2 R1120 1-216-025-00 METAL GLAZE 100 5% 1/10W D1124 8-719-110-36 D10DE RD13ESB2
D1123 8-719-110-36 DIODE RD13ESB2   R1120 1-216-025-00 METAL GLAZE 100 5% 1/10W   R1124 8-719-110-36 DIODE RD13ESB2   R1127 1-216-041-00 METAL GLAZE 100 5% 1/10W   R1125 8-719-109-66 DIODE RD13ESB2   R1127 1-216-041-00 METAL GLAZE 100 5% 1/10W   R1127 1/10W   R1127 1-216-041-00 METAL GLAZE 100 5% 1/10W   R1127 1/10W   R1127 1/10W   R1127 1/10
RIIZ  1/210 041 00 MEINE GENEE 4/0 3/6 1/10W
D1125 8-719-109-66 D10DE RD3.3ESB2 R1127 1-216-041-00 METAL GLAZE 470 5% 1/10W P1126 8-719-110-17 D10DE RD10ESB2 R1129 1-216-041-00 METAL GLAZE 470 5% 1/10W P1127 8-719-110-17 D10DE RD10ESB2 R1130 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W P1135 8-719-911-19 D10DE 1SS119-25 R1133 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W P1135 8-719-911-19 D10DE 1SS119-25
R1134 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W   R1140 1-216-025-00 METAL GLAZE 100 5% 1/10W   R1141 1-216-041-00 METAL GLAZE 470 5% 1/10W   R1141 1-216-041-00 METAL GLAZE 470 5% 1/10W   R1142 1-216-025-00 METAL GLAZE 100 5% 1/10W   R1142 1-216-051-00 METAL GLAZE 100 5% 1/10W   R1145 1-216-051-00 METAL GLAZE 1.2K 5% 1/10W   R145 1-216-051-00 METAL GLAZE 1.2K 5%
R1146 1-216-051-00 METAL GLAZE 1.2K 5% 1/10W <jack> R1149 1-216-041-00 METAL GLAZE 470 5% 1/10W  R1150 1-216-025-00 METAL GLAZE 100 5% 1/10W  R1151 1-216-025-00 METAL GLAZE 100 5% 1/10W  R1151 1-216-025-00 METAL GLAZE 100 5% 1/10W  R1151 1-216-043-91 METAL GLAZE 560 5% 1/10W</jack>
R1134   1-216-065-00   METAL GLAZE   4.7K   5%   1/10W
<coil>       R1160 1-216-049-00 METAL GLAZE IK 5% 1/10W         R1161 1-216-041-00 METAL GLAZE 470 5% 1/10W         L1101 1-410-476-11 INDUCTOR 33UH       R1162 1-216-041-00 METAL GLAZE 470 5% 1/10W         L1104 1-410-473-11 INDUCTOR 18UH       R1165 1-249-403-11 CARBON 68 5% 1/4W         L1105 1-410-494-11 INDUCTOR 1MMH       R1166 1-216-113-00 METAL GLAZE 470K 5% 1/10W</coil>
R1167 1-216-113-00 METAL GLAZE 470K 5% 1/10W <transistor>  R1168 1-216-113-00 METAL GLAZE 470K 5% 1/10W  R1169 1-216-025-00 METAL GLAZE 100 5% 1/10W  R1102 8-729-216-22 TRANSISTOR 2SA1162-G  R1170 1-216-041-00 METAL GLAZE 470 5% 1/10W</transistor>
Q1102 8-729-216-22 TRANSISTOR 2SA1162-G   R1170 1-216-041-00 METAL GLAZE 470 5% 1/10W   Q1103 8-729-216-22 TRANSISTOR 2SA1162-G   R1171 1-216-041-00 METAL GLAZE 470 5% 1/10W   Q1104 8-729-422-27 TRANSISTOR 2SA1162-G   R1171 1-216-025-00 METAL GLAZE 470 5% 1/10W   Q1105 8-729-216-22 TRANSISTOR 2SA1162-G   R1172 1-216-025-00 METAL GLAZE 100 5% 1/10W   R1174 1-216-041-00 METAL GLAZE 470 5%
Q1108 8-729-422-27 TRANSISTOR 2SD601A-Q   R1175 1-216-025-00 METAL GLAZE 100 5% 1/10W Q1109 8-729-216-22 TRANSISTOR 2SA1162-G   R1176 1-216-025-00 METAL GLAZE 100 5% 1/10W Q1110 8-729-216-22 TRANSISTOR 2SA1162-G
R1111

U ZR (KP-	41T15)	ZR (H	(P-4	6 <b>S</b> 15/	53S1	5)	ZG					
REF.NO. PART NO.	DESCRIPTION	15.14.14	·	REMARK	REF.NO.	PART	NO.	DESCRIPTION				REMARK
R1183 1-216-049-00 R1184 1-216-113-00 R1185 1-216-049-00 R1186 1-216-061-00 R1187 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 470K 5% 1K 5% 3.3K 5% 3.3K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1406 R1407 R1408 R1409	1-24 1-24 1-24	6-479-11 9-400-11 9-384-11 9-384-11 7-734-11	METAL OXIDE CARBON CARBON CARBON CARBON	560 39 1.8 1.8	5%%%%% 55555555555	3W 1/4W 1/4W 1/4W 1/2W	3 <b>3 4 5</b> 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5
R1188 1-216-097-00 R1190 1-216-295-00 R1191 1-216-295-00 R1192 1-216-295-00 R1193 1-216-025-00	METAL GLAZE CONDUCTOR, CI CONDUCTOR, CI CONDUCTOR, CI METAL GLAZE	HIP HIP 100 5%	1/10W		R1411 R1412 R1413 R1414	1-24 1-24 1-24 1-24	9-417-11 9-414-11 9-432-11 9-432-11	CARBON CARBON CARBON CARBON CARBON	1 K 560 18 K 18 K 560	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W 1/4W 1/4W	F F
R1194 1-216-025-00 R1196 1-216-041-00 R1197 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 470 5% 470 5%	1/10W 1/10W 1/10W	*****	R1416 R1417 R1418	1-21 1-21 1-24	6-451-11 6-475-11 9-377-11 7-815-91	METAL OXIDE METAL OXIDE CARBON CARBON	120 120 0.47 220	5% 5% 5% 5%	2W 3W 1/4W 1/4W	ት ት
*A-1390-487-A		(PLETE (KP-4)			R1420	1-21	6-475-11 19-417-11	METAL OXIDE	120 1K	5% 5%	3W 1/4W	F
4-382-854-11	SCREW (M3X10)	), P, SW (+)						********				******
<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>! !</td><td>*A-13</td><td>90-513-A</td><td>ZR BOARD, CO</td><td>(PLETE</td><td>(KP-46</td><td>S15/53</td><td>S15)</td></cap<>	ACITOR>				! !	*A-13	90-513-A	ZR BOARD, CO	(PLETE	(KP-46	S15/53	S15)
C1401 1-162-115-00 C1402 1-162-115-00		330PF 330PF	10% 10%	2KV 2KV		4-38	2-854-11	SCREW (M3X10)	), P, S	W (+)		
C1403 1-102-978-00 C1404 1-107-638-11 C1405 1-104-665-11	CERAMIC ELECT ELECT	220PF 33MF 100MF	5% 20% 20%	50V 160V 25V			<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				
C1406 1-107-370-11 C1407 1-104-665-11		0.1MF 100MF 0.0047MF	10% 20% 10%	200V 25V 200V	C1401 C1402	1-16 1-16	52-115-00 52-115-00	CERAMIC CERAMIC	330PF 330PF		10% 10%	2KV 2KV
C1409 1-107-667-11 C1410 1-107-362-11	ELECT Film	2.2MF 0.0047MF	20% 10%	160V 200V				NECTOR>				
C1413 1-161-830-00 C1414 1-126-940-11	FILM CERAMIC ELECT	0.001MF 0.001MF 0.0047MF 330MF 10PF	5% 5% 99% 20% 0.5PF	50V 50V 500V 16V 50V	CN1412	*1-56 *1-56	54-507-11 54-506-11 54-506-11	PIN, CONNECTO PLUG, CONNECTO PLUG, CONNECTO PLUG, CONNECTO	FOR 4P	BUARD	) <b>4</b> P	
C1416 1-102-973-00	CERAMIC	100PF	5%	50 <b>V</b>	R1401	1-24	RES> 19-414-11	ISTOR>	560	5%	1/4W	
	INECTOR>				R1402 R1403	1-24 1-20	19-414-11 02-822-00 02-822-00	CARBON SOLID	560 2.2K 2.2K	5% 20%	1/4W 1/2W 1/2W	
CN1411*1-580-689-11 CN1412*1-564-507-11 CN1413*1-564-506-11 CN1414*1-564-509-11 CN1415*1-564-510-11	PLUG, CONNEC PLUG, CONNEC	TOR 3P TOR 6P	) <b>4</b> P		R1420	1-21	16-475-11	METAL OXIDE METAL OXIDE	120 120	5% 5%	3W 3W	F
*	·	ion (r			1			ZG BOARD, CO	MPLETE			*****
<dic D1401 8-719-110-88</dic 	DIODE RD39ES	B2			i    -  -	*A-13	390-512-A	**************************************		(KP-40	6S15/53	S15)
D1402 8-719-110-88	DIODE RD39ES	B2						********	*****			·
	ANSISTOR>	001000			g. 10.			ACITOR>	00000		400	
Q1401 8-729-017-06 Q1402 8-729-017-05 Q1403 8-729-140-96	TRANSISTOR 2	SA1837			C1432	1-16	52-115-00 52-115-00 02-973-00	CERAMIC	330PF 330PF 100PF		10% 10% 5% (K	2KV 2KV 50V P-41T15)
	SISTOR>		, -		1		<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td></con<>	NECTOR>				
R1401 1-249-414-11 R1402 1-249-414-11 R1403 1-202-822-00 R1404 1-202-822-00 R1405 1-249-417-11	CARBON SOLID SOLID	560 5% 560 5% 2.2K 20% 2.2K 20% 1K 5%	1/4W 1/4W 1/2W 1/2W 1/4W		CN1442	3*1-56 3*1-56	54-507-11 54-506-11	PIN, CONNECT PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR 4P TOR 3P			5/53\$15)

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

### KP-41T15/46S15/53S15 RM-Y118 RM-Y118 RM-Y118

ZG ZB

REMARK

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO. PART NO.
CN1445	×1-564-510-11	PLUG, CONNECT	OR 7P		(KI	P-41 <b>T</b> 15)	ACC
	<875	ISTOR>					***
R1432 R1433 R1434	1-249-414-11 1-249-414-11 1-202-822-00 1-202-822-00 1-216-475-11	CARBON CARBON SOLID SOLID	560 560 2.2K 2.2K 120	5% 5% 20% 20% 5%	1/4W 1/4W 1/2W 1/2W 3W	F	3-798-907 *4-041-426 *4-042-465 *4-047-776 *4-047-777
R1437	1-216-475-11 1-249-417-11	CARBON	120 1K	5% 5%	-	F P-41T15)	*4-047-778 *4-047-779 *4-048-579 *4-048-580 *4-048-581
	************ *A-1390-491-A		PLETE	*****	*****	******	*4-048-582 *4-049-15
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td></td></cap<>	ACITOR>					
	1-162-115-00 1-162-115-00		330PF 330PF		10% 10%	2KV 2KV	1-467-050 9-903-820
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td><td></td></con<>	NECTOR>					
CN1472	*1-580-689-11 *1-564-507-11 *1-564-506-11	PLUG, CONNECT	OR 4P	BOARD)	4P		
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td>•</td><td>   </td></res<>	ISTOR>				•	 
R1462	1-249-414-11 1-249-414-11 1-202-822-00 1-202-822-00 1-216-475-11	CARBON SOLID	560 560 2.2K 2.2K 120		1/4W 1/4W 1/2W 1/2W 3W	F	
R1466	1-216-475-11	METAL OXIDE	120	5%	30	F	!
*****	*********	*******	*****	*****	******	******	
		MISCELLANEOUS					i ! ! !
A	1-223-925-11 1-452-790-11 1-452-790-21 1-504-785-11 1-556-945-21	NECK ASSY	(KP-41 (KP-41	T15)	AGE)		
d L	\(\)1-559-865-41 1-561-306-00 \(\)1-769-837-11 \(\)1-900-211-34 \(\)8-451-463-11	JACK, PIN (P' CORD, POWER( LEAD ASSY, H	) With N V	OISE F	ILTER)	7.08/125\	
V901 Z V902 Z	∆ 8-451-463-21 ∆ 8-598-955-00 ∆ 8-736-078-05 ∆ 8-736-079-05 ∆ 8-736-081-05	BLOCK ASSY, PICTURE TURE PICTURE TUBE	HIGH-V O7NAB O7NAB	5(b) 5(B) (	KP-41T	15/46\$15) 15)	
l	L 8-736-080-05 L 8-736-082-05	PICTURE TUBE	OTNAB	6(R) (	KP-53S	15)	

### ACCESSORIES AND PACKING MATERIALS

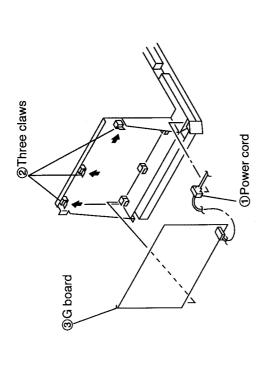
DESCRIPTION

3-798-907-21 *4-041-426-01 *4-042-463-01 *4-047-776-01 *4-047-777-01	MANUAL, INSTRUCTION BAG, PROTECTION SHEET, PROTECTION TRAY INDIVIDUAL CARTON	(KP-53S15) (KP-53S15) (KP-53S15) (KP-53S15)
*4-047-778-01 *4-047-779-01 *4-048-579-01 *4-048-580-01 *4-048-581-01	CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY) CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY) TRAY	(KP-53S15) (KP-53S15) (KP-41T15) (KP-41T15) (KP-41T15)
*4-048-582-01 *4-049-155-01	INDIVIDUAL CARTON BAG, PROTECTION	(KP-41T15) (KP-41T15)

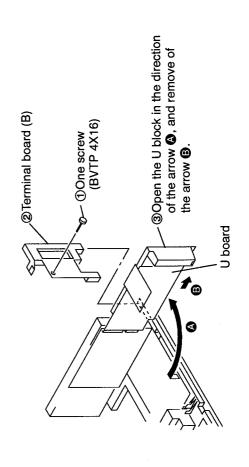
### REMOTE COMMANDER

1-467-059-21 REMOTE COMMANDER (RM-Y118) 9-903-826-01 COVER, BATTERY (FOR RM-Y118)

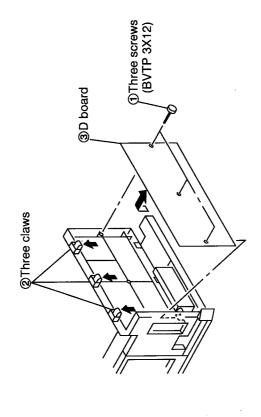
# 2-4. G BOARD REMOVAL



# 2-6. U BOARD REMOVAL

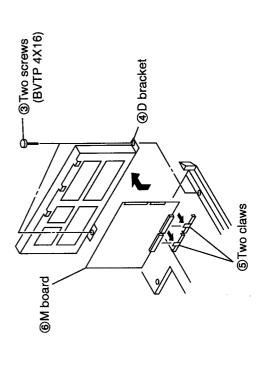


# 2-5. D BOARD REMOVAL

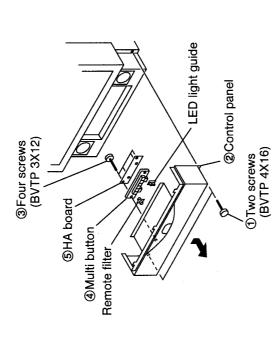


# 2-7. M BOARD REMOVAL

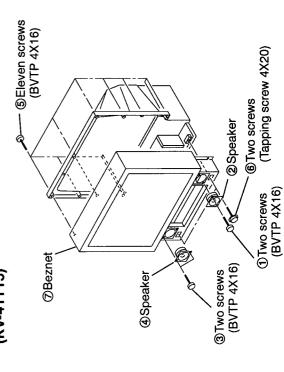
- ① Remove the D board. (Refer to 2-5.)
- ② Remove the U board. (Refer to 2-6.)



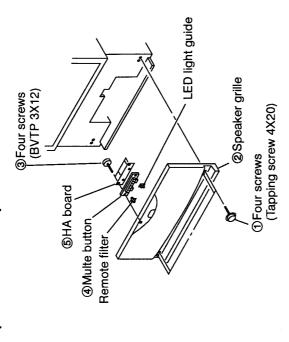
# 2-8-1. HA BOARD REMOVAL (KP-41T15)



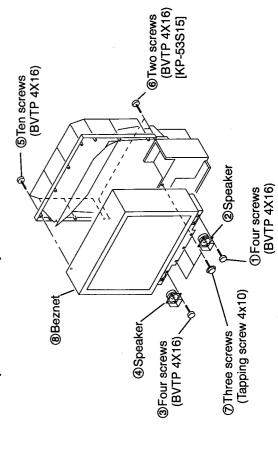
# 2-9-1. BEZNET REMOVAL (KV-41T15)



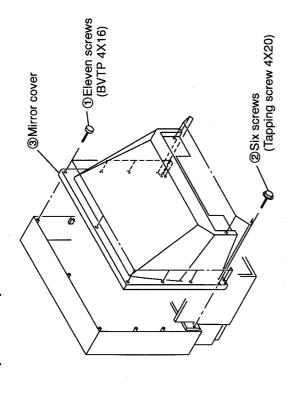
### 2-8-2. HA BOARD REMOVAL (KP-46S15/53S15)



# 2-9-2. BEZNET REMOVAL (KV-46S15/53S15)



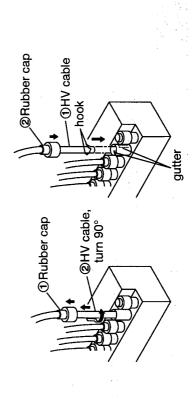
# 2-10-1. MIRROR COVER REMOVAL (KP-41T15)



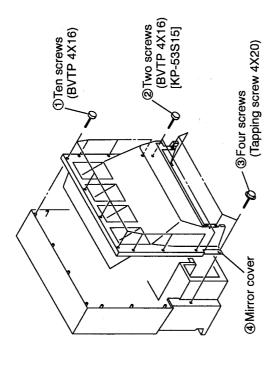
# 2-11. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(2) Installation

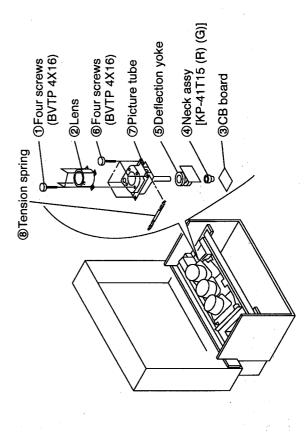
(1) Remover



# 2-10-2. MIRROR COVER REMOVAL (KP-46S15/53S15)



# 2-12. PICTURE TUBE REMOVAL



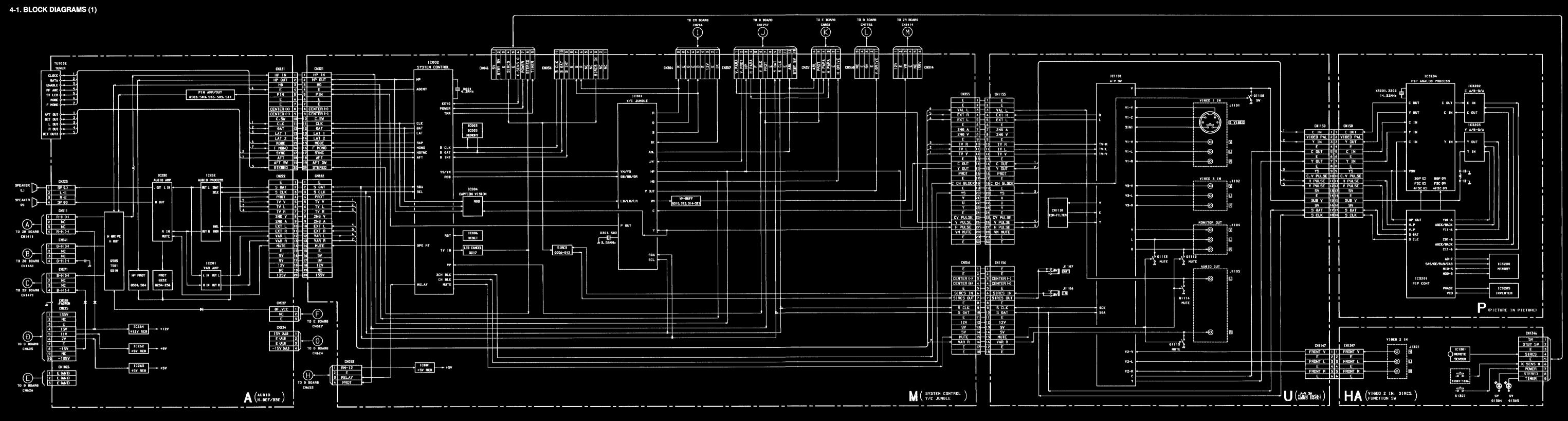
SAFETY RELATED ADJUSTMENTS

ILLUSTRATION AND SHAPE AND NUMBER	E BOARD – COMPONENT SIDE –	CN886 CN885 CN884    o o   o o   O who wh	Remove the cap off from the unused terminal and connect a static voltmeter there.		* CN885 E board VR33kΩ
ADJUSTMENT LOCATION	* <b>K</b> R809, R988			* PICTURE	BRIGHTNESSminimum
MEASUREMENT POSITION		* marked parts C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R954, R955, R983, R984, R988, R991, R995, R996, R998, T803, FBT E	board HV Block *HV Block		
EQUIPMENT AND SIGNAL			* Static Voltmeter	*Dot pattern	
ADJUSTMENT ITEM AND PROCEDURE	HV HOLD DOWN CIRCUIT OPERATIONS CHECK AND ADJUSTMENT (*M RESISTOR)	When replacing the parts marked *☑ on the right, check the HV hold down and adjust.	<ol> <li>Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter.</li> <li>Input 130 VAC power.</li> </ol>	3. Receive the *Dot siganl and set the *PICTURE and BRIGHTNESS settings to their minimums.	4. Connect a *33 kΩ variable resistor across the E board *CN885 connector (with the variable resistor set to its maximum).

ILLUSTRATION AND SHAPE AND NUMBER	*33.7 ± 0.8 kVDC  *34.0 VDC or higher *16.0 kΩ 1/4W  *32.0 VDC or lower *6.2 kΩ 1/4W  MR988	E BOARD – COMPONENT SIDE –	CN886 CN885 CN884    o o   o o     O w w o w o w o w o w o w o w o w o w o
ADJUSTMENT LOCATION	*R988	* <b>™</b> R808, R983	*PICTUREminimum BRIGHTNESSminimum
MEASUREMENT POSITION		*  marked parts C918, C930, C934,	C980, D902, D920, D925, Q909, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R967, R971, R975, R967, R971, R975, R976, R982, R983, R985, R988, R988, R988, R988, R988, R984, *HV Block
EQUIPMENT AND SIGNAL			* Static Voltmeter * Dot pattern
ADJUSTMENT ITEM AND PROCEDURE	<ol> <li>Gradually lower the value of the variable resistor and check that the hold down circuit operates at a Static Voltmeter reading of *33.7 ± 0.8 kVDC and that the rasters disappear.</li> <li>If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of *34.0 VDC or higher, remove resistor *R809 and mount a *16.0 kΩ 1/4W RN at *R988. If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of *32.0 VDC or lower, remove resistor R809 and mount *6.2 kΩ 1/4W RN at *R988.</li> <li>Check Item 5 again.</li> </ol>	HV REGULATION CIRCUIT CHECK AND ADJUSTMENT (** RESISTOR)  When replacing the parts marked ** on the right, check the HV regulation and adjust.	<ol> <li>Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter.</li> <li>Input 120 VAC power.</li> <li>Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> </ol>

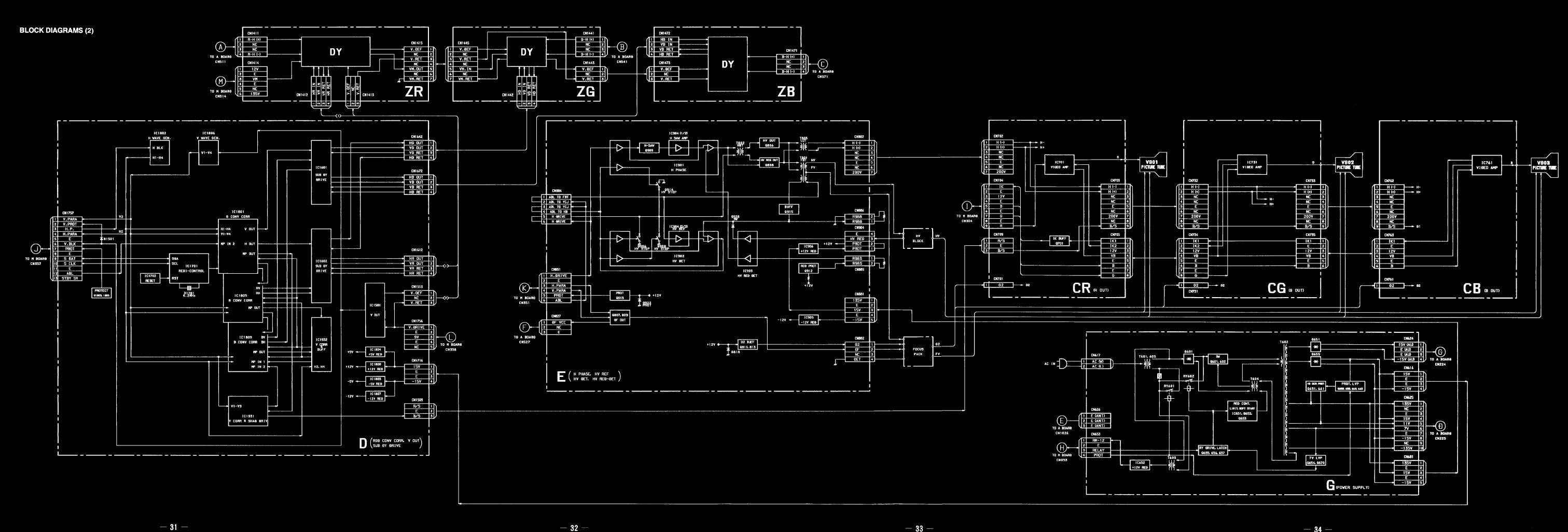
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
OVERVOLTAGE PROTECTION (OVP) OPERATIONS CHECK				
1. Connect a *220 kQ variable resistance rheostat to the G board C655 (between Pins @ and @ of IC651).				* G board
				-9- -0- -0
<ul> <li>2. Input *120.0 ± 1.0 VAC, 60 Hz power.</li> <li>3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> </ul>	*Dot pattern		* PICTUREminimum	*120.0 ± 1.0 VAC, 60 Hz
<ul> <li>4. Gradually lower the value of the connected variable resistance and check that when the +B line *voltage is *143.5 ± 5.5 VDC, the overvoltage circuit operates and the rasters disappear.</li> <li>5. Remove the variable resistor and check the +B line voltage.</li> </ul>	*Digital Multimeter		minimum	* 143.5 ± 5.5 VDC
BEAM CURRENT (∑Ik) PROTECTION CIRCUIT CHECK  1. Connect the *ABL ammeter between *Pins ① and ② of the CN884 on the E board.  Have Pins ② and ③ open.	*Ammeter			*  CN884 (E board)  5 0 040 0 01 ABL  ammeter
2. Input *120.0 ± 1.0 VAC, 60 Hz power. 3. Receive a *monoscope signal and set the *PICTURE and BRIGHTNESS settings to their minimums.	*Monoscope pattern		* PICTURE	*120.0 ± 1.0 VAC, 60 Hz

dark current), the beam current protection circuit operates and the rasters disappear.  +B, +B MAX CHECK  When replacing the G board IC651, check the following.
-
* Dot pattern  * CN681 pin ①
* CN681 pin ①

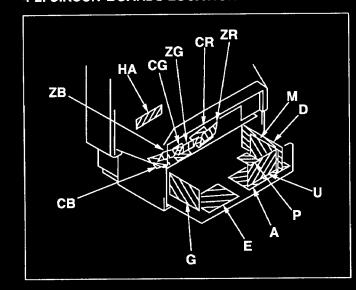


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### 4-2. CIRCUIT BOARDS LOCATION



### 4-3. PRINTED WIRING BOARDS AND **SCHEMATIC DIAGRAMS**

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms.
- $k\Omega = 1000 \Omega$ ,  $M\Omega = 1000 k\Omega$
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch: 5mm Rating electrical power: 1/4W

- : nonflammable resistor. • two: fusible resistor.
- \( \Delta \) : internal component.
- \_\_\_\_\_ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B. unless otherwise noted.
- : earth-chassis.
- The components identified by 
   ☐ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by A and repeat the adjustment
- (Refer to R808, R809, R983 and R988 adjustment on Page 20 - 24.)

until the specified value is achieved.

• When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (☑)	Adjustment (⋈)
HV Block Q915, D804, D806, D809, D909, D912, C818, R809, R855, R856, R857, R858, R954, R955, R983, R984, R988, R991, R995, R996, R998, T801 (FBT), T803 E BOARD	HV HOLD-DOWN (R809, R988)
HV Block Q909, D902, D920, D925, C918, C930, C934, C980, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R965, R967, R971, R975, R976, R982, R983, R985, R998 · · · · · E BOARD	HV Reagurater (R808, R983)

RESISTOR : RN METAL FILM : RC SOLID FPRD NONFLAMMABLE CARBON FUSE NONFLAMMABLE FUSIBLE RW NONFLAMMABLE WIREWOUND RS NONFLAMMABLE METAL OXIDE NONFLAMMABLE CEMENT ADJUSTMENT RESISTOR : LF-8L MICRO INDUCTOR CAPACITOR : TA TANTALUM PS STYROL : PP POLYPROPYLENE : PT MYLAR : MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE : ALB BIPOLAR : ALT HIGH TEMPERATURE : ALR HIGH RIPPLE

• As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list.

- Readings are taken with a color-bar signal input.
- Readings are taken with a 10M Ω digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- \* : Measurement impossibillity.
- Circled numbers are waveform references.
  - : 13 4 bus.

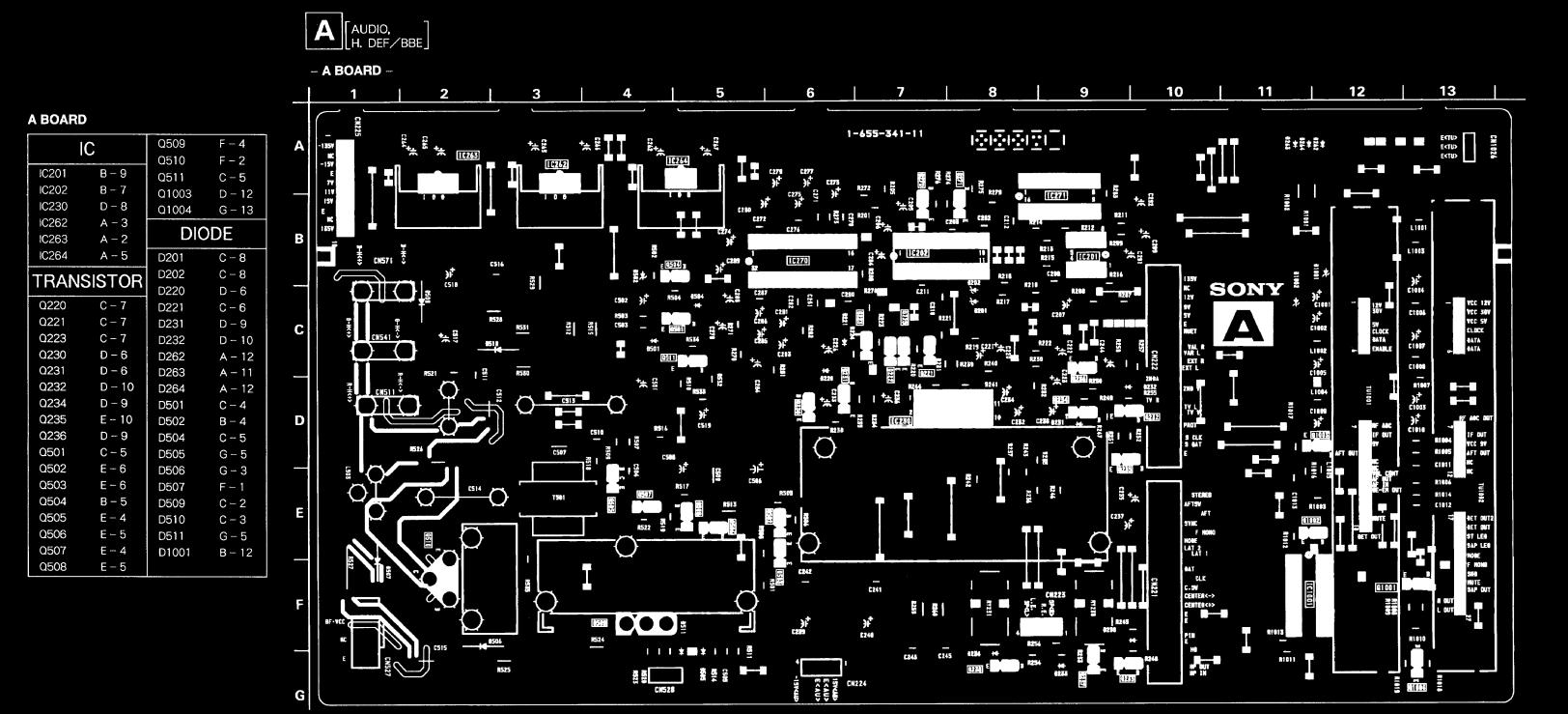
Note: The symbol display is on the component side.

The components identified by shading and mark  $\Lambda$ are critical for safety. Replace only with part number specified.

> The symbol ——— indicate fast operating fuse. Replace only with fuse of same rating as maked.

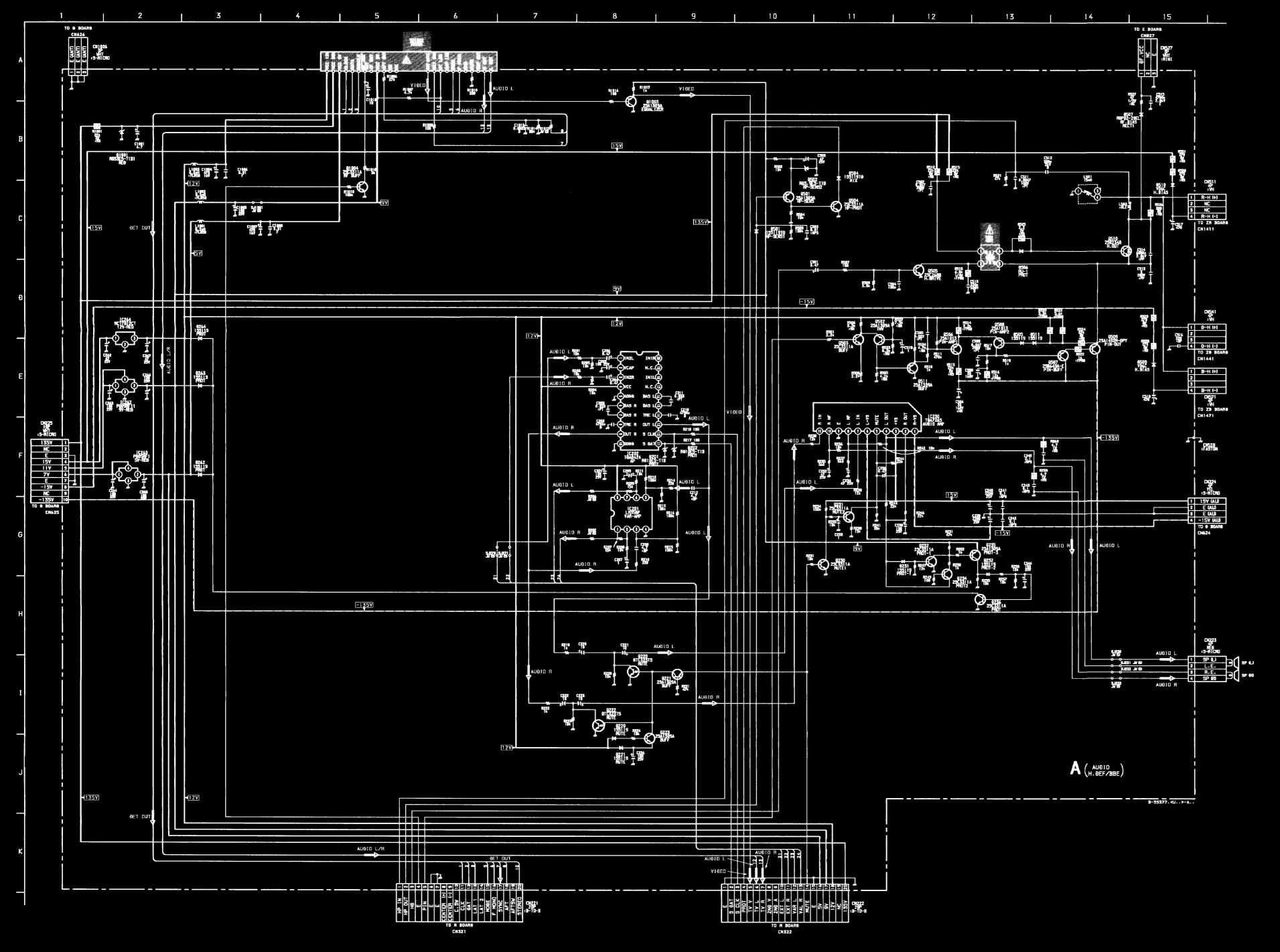
Note: Les composants identifiés per un tramé et une marque 🛕 sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro

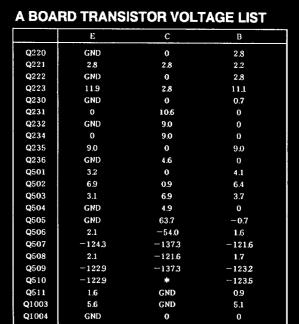
Le symbole III indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.



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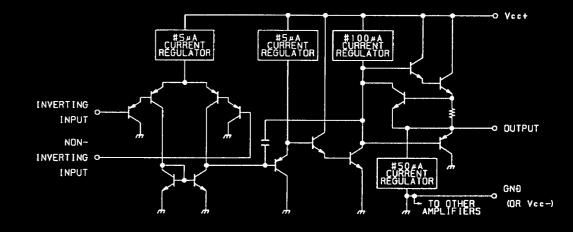
BUAR	יו עו	VOLT	AGE	LIST			ALL	VOLT	AGES	ARE I	1
IC201		6.1	3	6.1	5	6.1	7	6.1			
	2	6.1	4	GND	6	6.1	8	12.0			
IC202	1	6.0	5	GND	9	6.1	13	6.1	17	NC	
	2	12.0	6	6.1	10	GND	14	6.1	18	NC	
	3	6.0	7	6.1	11	4.6	15	6.1	19	NC	
	4	12.0	8	6.1	12	4.6	16	6.1	20	NC	
IC230	1	-16.3	4	0	7	0	10	0			
1	2	0	5	10.6	8	0	11	. 0			
:	3	15.0	6	-16.3	9	GND					
IC262	1	11.0	ž	9.0	3	GND	4	11.0			
IC263	1	7.0	2	5.0	3	GND	4	7.0			
IC264	1	15.0	2	GND	3	12.0					

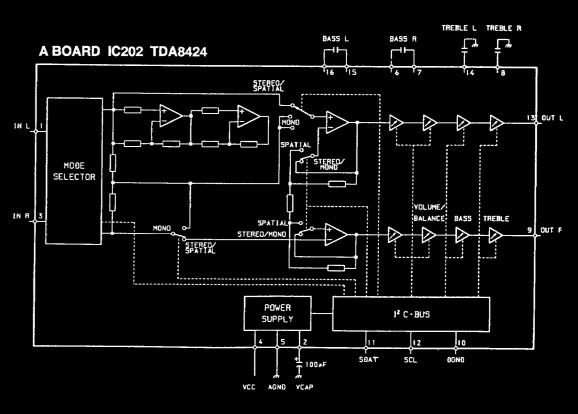
\* : MEASUREMENT IMPOSSIBILTY

### A BOARD WAVEFORMS

1	2	3
	-parting	
1.9 Vp-p (H)	1.9 Vp-p (H)	2.3 Vp-p (H)
4	(5)	6
	_//_	$\sim$
114 Vp-p (H)	885 Vp-p (H)	0.6 Vp-p (V)
7	8	
$\sim$	$\sim$	
1.3 Vp-p (V)	24.6 Vp-p (V)	

### A BOARD IC201 LM358P



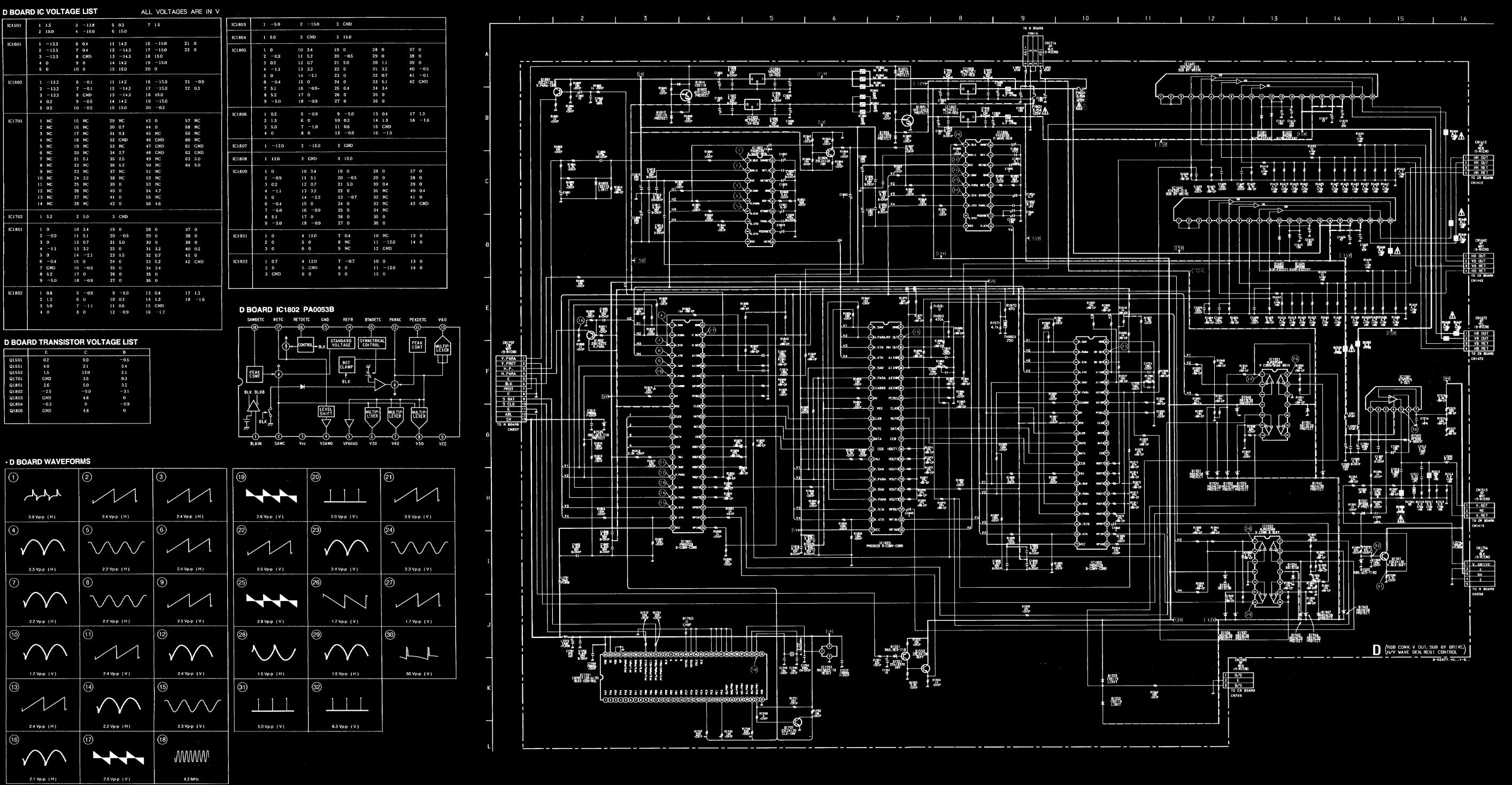


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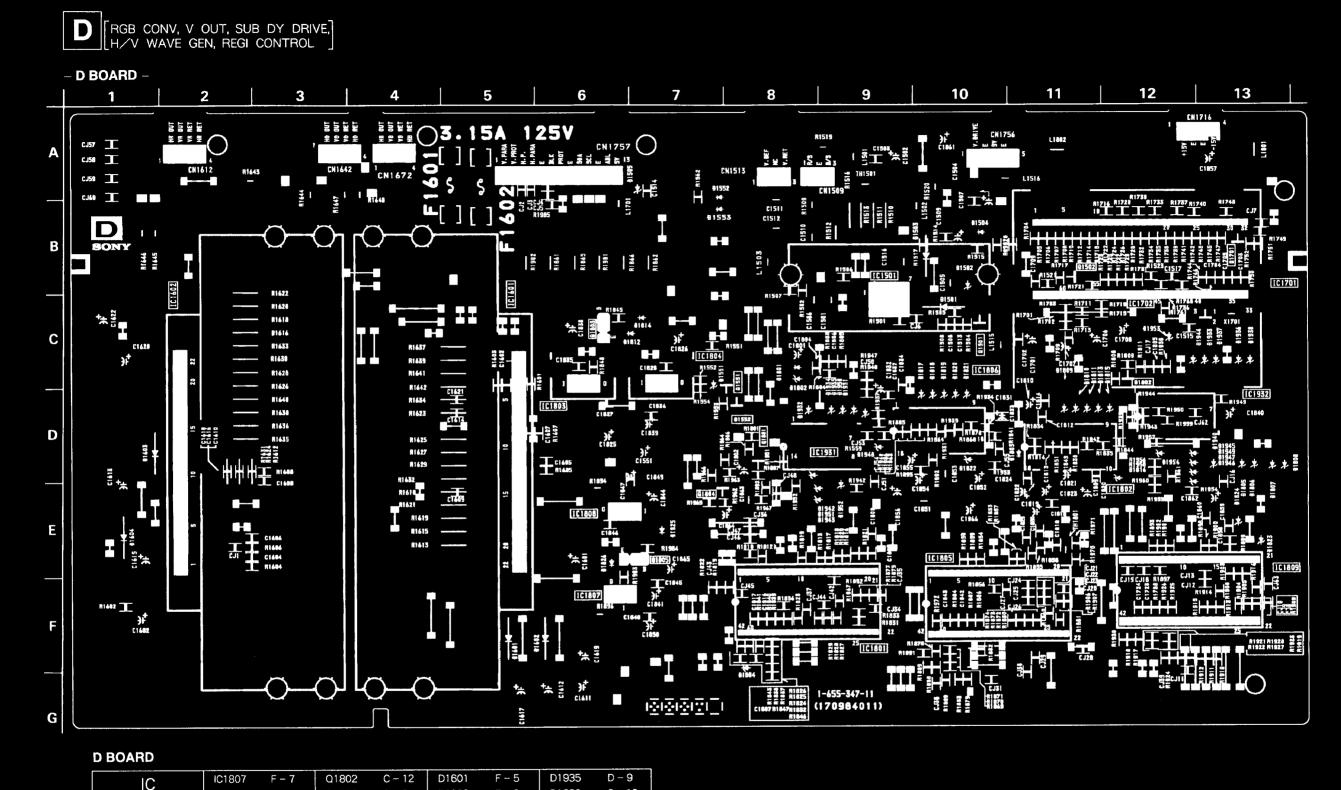
**— 43 —** 

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Schematic diagrams ← A board

D board →



D1954

D - 12

IC1501	C – 9	IC1809	F – 12	Q1804	E – 8	D1603	D - 2	D1937	C - 13
IC1601	C - 5	IC1931	D-9	Q1805	E - 7	D1604	E - 1	D1942	E – 9
IC1602	D – 2	IC1932	D - 13	DIC	יחר	D1803	D – 11	D1945	D - 13
IC1701	B - 12	TDANK	ICTOD	DIC	DE	D1812	C-7	D1946	E - 13
IC1702	C - 12	TRANS	SISTOR	D1501	C - 10	D1814	C-7	D1947	E - 13
IC1801	F – 9	Q1501	C - 10	D1502	B - 10	D1825	Ę – 7	D1948	D - 9
IC1802	D - 12	Q1502	B – 11	D1503	B - 10	D1826	E – 6	D1949	D - 13
IC1803	D - 6	Q1551	D - 8	D1505	A - 6	D1827		D1951	E-9
IC1804	D – 7	Q1552	D – 8	D1551	D - 8	D1931	Ð – 9	D1953	C - 12

B - 8

D1932

D1934

D - 9

D - 9

D1552

D1553

IC1806

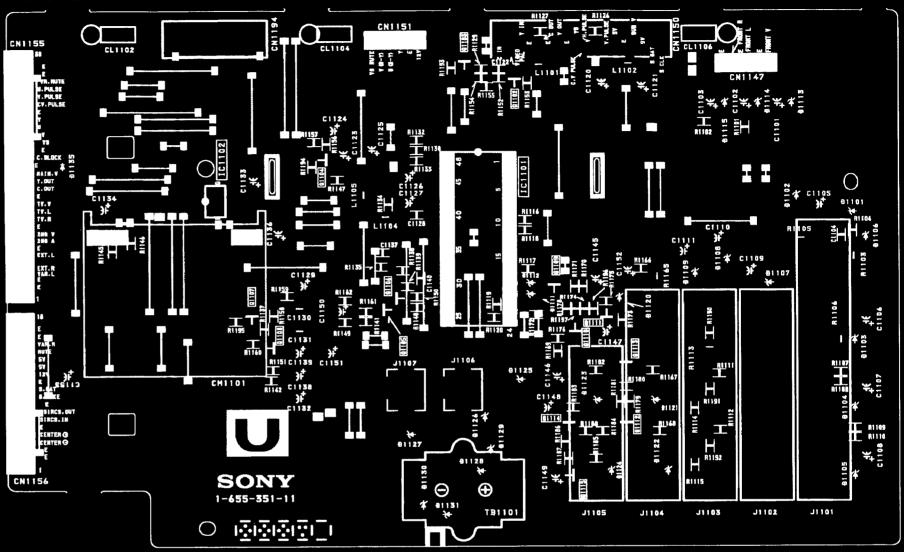
D - 10

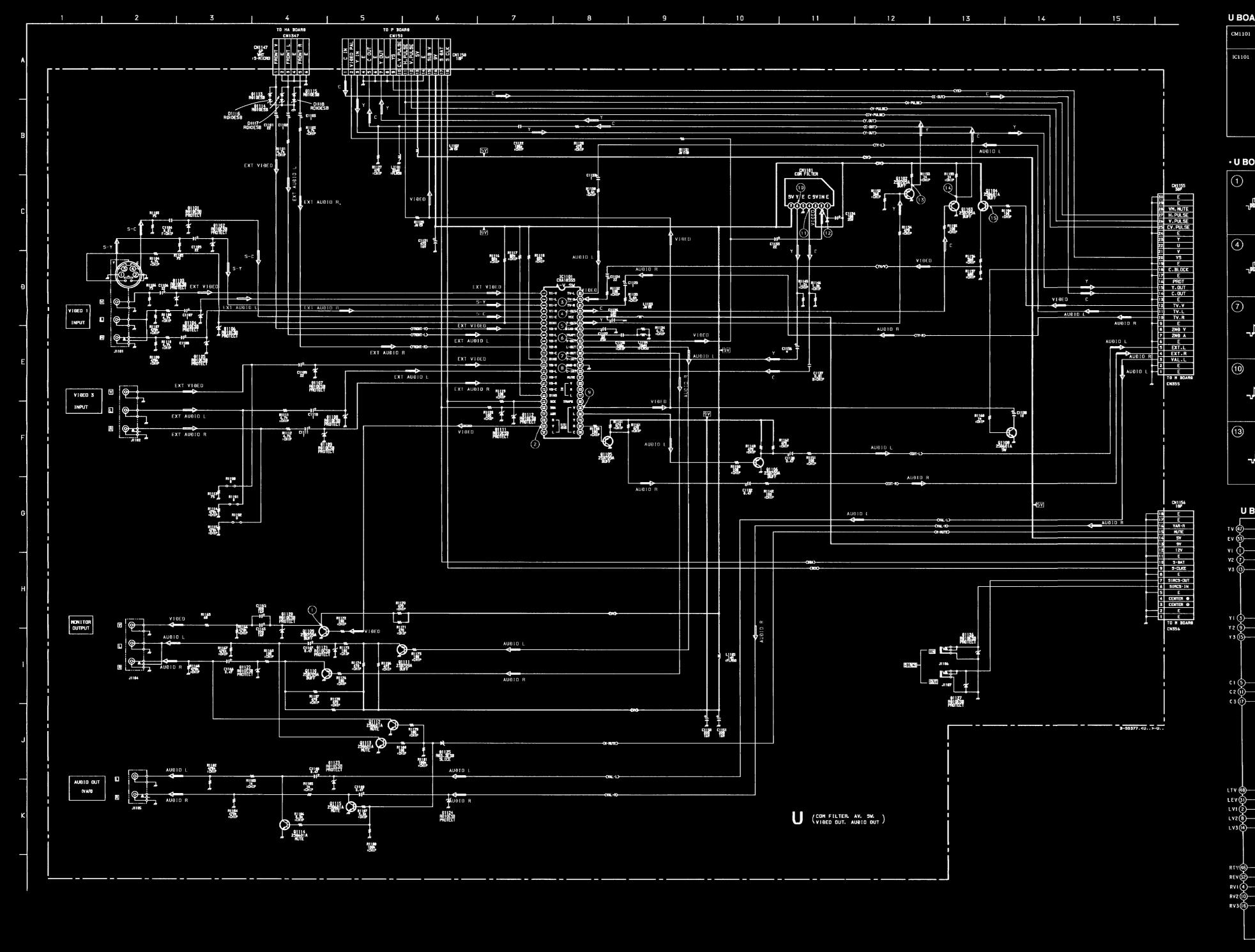
Q1801

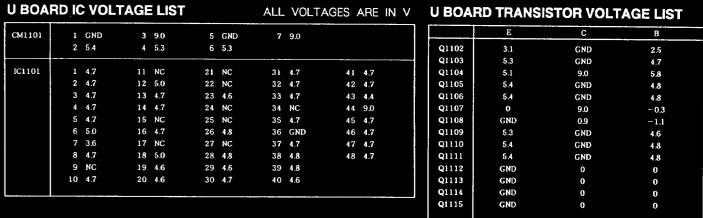
D - 8



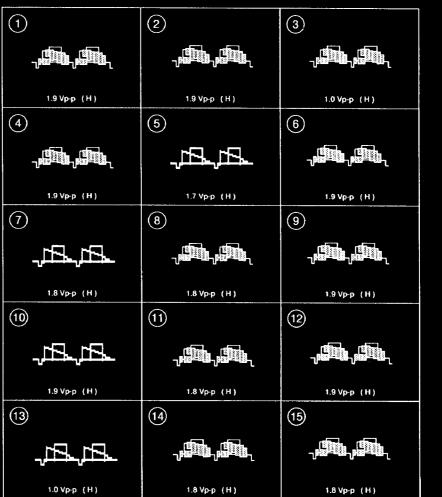
### - U BOARD -

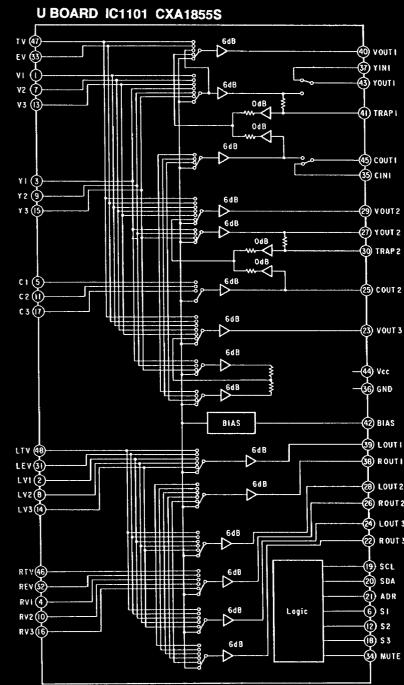




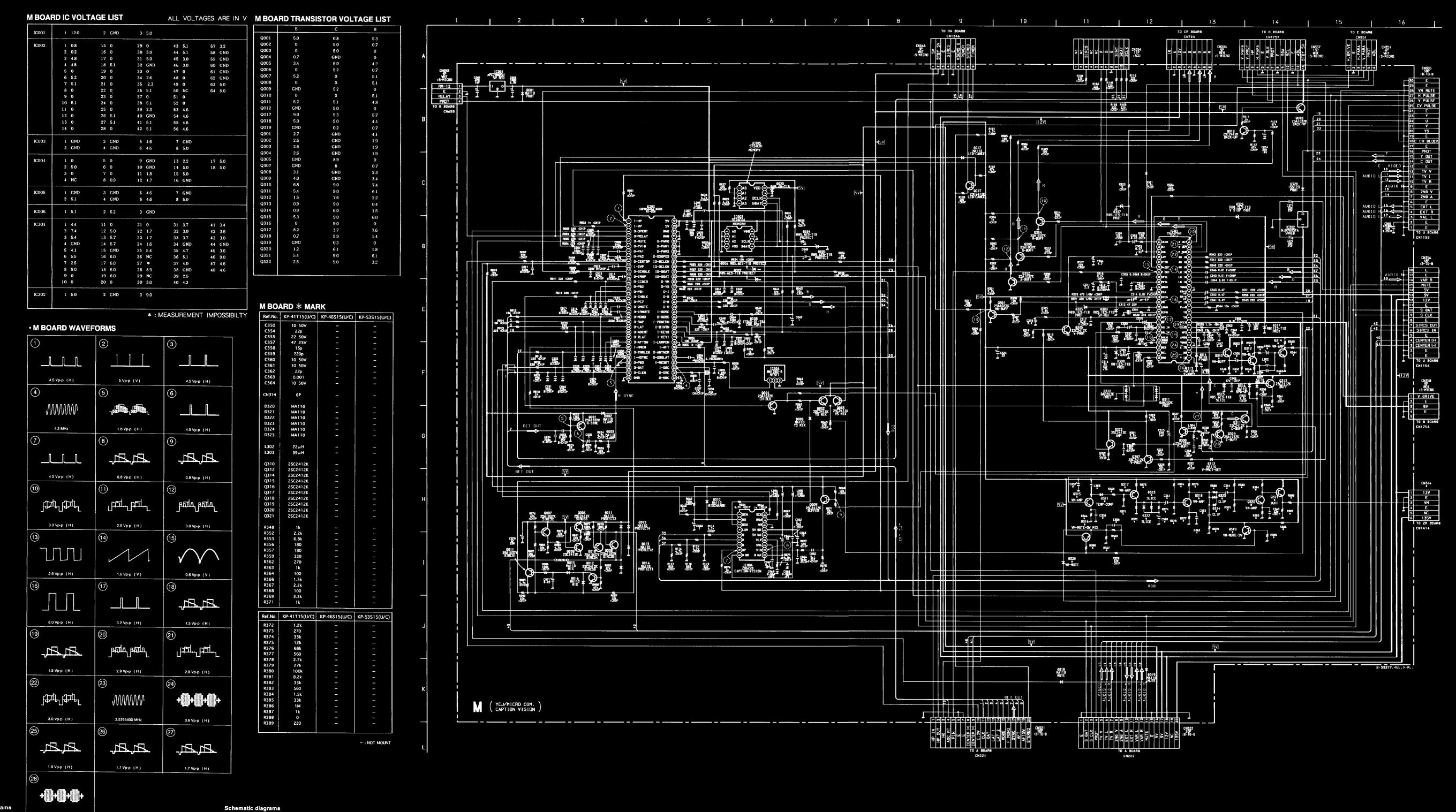


### • U BOARD WAVEFORMS





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Schematic diagrams

• U board

1.3 Vp-p (H)

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M board →

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### **SPECIFICATIONS**

Projection system 3 picture tubes, 3 lenses, horizontal in-

line system

Picture tube 7 inch high-brightness monochrome

tubes (6.3 rester size), with optical coupling and liquid cooling system

Projection lenses High performance, large-diameter

hybrid lens F1.0

Screen size (measured diagonally)

 KP-41T15
 41 inches

 KP-46S15
 46 inches

 KP-53S15
 53 inches

Screen brightness

 KP-41T15
 1900 cd/m²

 KP-46S15
 1500 cd/m²

 KP-53S15
 1200 cd/m²

Television system Channel coverage American TV standards VHF: 2-13 / UHF: 14-69 /

CATV: 1-125

Antenna 75 ohm external antenna terminal for

VHF/UHF

Inputs/output VIDEO IN 1

S VIDEO IN (4-pin mini DIN):

Y: 1 Vp-p, 75-ohms unbalanced, sync negative

C: 0.286 Vp-p (Burst signal) 75 ohms

VIDEO (phone jack): 1 Vp-p, 75-ohms

unbalanced, sync negative AUDIO (phone jacks):

500 mVrms (100% modulation)

Impedance: 47 kilohms

VIDEO INPUT 2 and VIDEO IN 3

VIDEO (phone jacks): 1 Vp-p, 75-ohms

unbalanced, sync negative AUDIO (phone jacks):

500 mVrms (100% modulation)

Impedance: 47 kilohms

MONITOR OUT VIDEO (phone jack): 1 Vp-p, 75-ohms

unbalanced, sync negative AUDIO (phone jacks):

500 mVrms (100% modulation)

Impedance: 10 kilohms AUDIO OUT (phono jacks): 900 mVrms (100% modulation)

Impedance: 5 kilohms

Speaker Full range speaker

100 mm (3.9 inches) diameter

Speaker output
Power requirement

7 W x 2 120 V, 60 Hz Power consumption

220 W

Standby mode: 4 W

	Dimensions (W/H/D)	Mass
KP-41T15	950 x 1,000 x 588 mm	51 kg
	(37 1/2 x 39 3/8 x 23 1/4 inches)	(112 lbs 7 oz)
KP-46S15	1,066 x 1,306 x 543 mm	70 kg
	(41 3/4 x 51 1/2 x 21 1/2 inches)	(154 lbs 5 oz)
KP-53S15	1,218 x 1,413 x 594 mm	75 kg
	(48 x 55 3/4 x 23 1/2 inches)	(165 lbs 6 oz)

Supplied accessories Remote commander RM-Y118 (1)

Size AA (R6) battery (1)

Optional accessories U/V mixer EAC-66

Connecting cables RK-74A, VMC-810S/820S, YC-15V/30V,

VMC-720M

Video tray SU-PJT2 (For KP-46S15,

KP-53S15)

Stand SU-41X1 (For KP-41T15)

Contrast screen

SCN-41T1 (For KP-41T15) SCN-46X1 (For KP-46S15) SCN-53X1 (For KP-53S15)

Design and specifications are subject to change without notice.

### SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perfom the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- 2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- 4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- 5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recom mend their replacement.
- 6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- 8. Check the B+ and HV to see they are at the values specified.

  Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna temminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

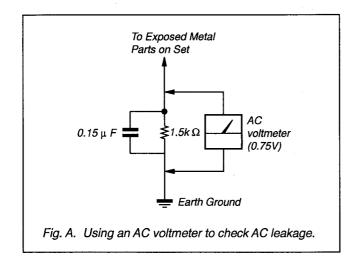
### **LEAKAGE TEST**

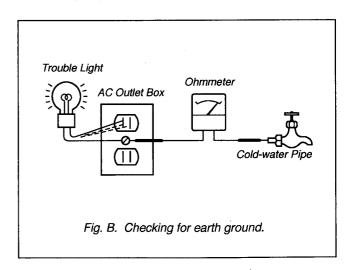
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate lowvoltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### **HOW TO FIND A GOOD EARTH GROUND**

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-l00 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)





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	2-7. M BOARD REMOVAL					
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	2-8-2. HA BOARD REMOVAL (KP-46S15/53S15			5-1.	Cover (KP-41T15)	96
	2-9-1. BEZNET REMOVAL (KP-41T15)			5-2.	Cover (KP-46S15/53S15)	97
	2-9-2. BEZNET REMOVAL (KP-46S15/53S15)			5-3.	Chassis	
	2-10-1. MIRROR COVER REMOVAL (KP-41T15)	) 19		5-4.	Picture tube	
			6.	ELEC	CTRICAL PARTS LIST	100

### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESECOMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFEOPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### (ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIR-CUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE. LE CHÁSSIS DE CE RECEPTEUR EST DIRECTEMENT RAC-CORDÉ Á L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE À SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNEIMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

### SECTION1 GENERAL

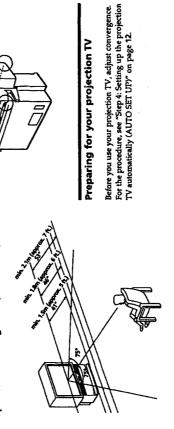
the Operating Instruction Manual. The page numbers of the Operat-The operating instructions mentioned here are partial abstracts from ing Instruction Manual remein as in the manual.

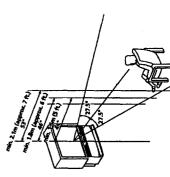
### **Getting Started**

### the projection TV Step 1: Installing

For the best picture quality, install the projection TV within the areas shown below.

Optimum viewing area (Horizontal)

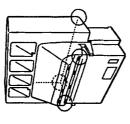




## Carrying your projection TV

Be sure to grasp the portions indicated when carrying the projection TV, and to use more than two people.

### (Rear of projection TV)

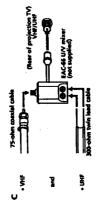


Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directry to the terminal, follow one of the instructions below depending on your cable type

To an antenna

### 75-ohm coexial cable A . VHF only





- Most VHF/UHF combination antennss have a signal splitter.
   Remove the splitter before statefug the appropriate connector.
   If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37(W+1).

## Connecting an antenna/cable TV system without a VCR

To cable or antenna

Connections

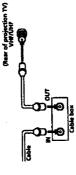
Step 2:



### To cable box

If your cable company requires you to connect a cable box, make the connection as follows:

Although you can use either an indoor antenna or outdoor antenna with your projection TV, we recommend connecting to an outdoor antenna or a cable TV system for improved picture quality.



Optimum viewing area (Vertical)

Getting Started | 5-EN

# Connecting an antenna/cable TV system with a VCR

For details on connection, see the instruction manual of your VCR. Before connecting, disconnect the AC power cords of the equipment to be connected.

After making these connections, you will be able to do

the following:

• View the playback of video tapes

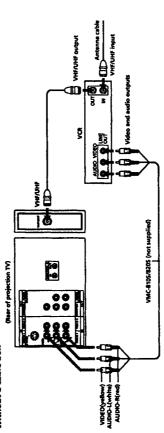
· Record one TV program while viewing another

program

• Watch two TV programs at one time using a window picture (Picture-in-Picture)

### To a conventional VCR

Without a cable box

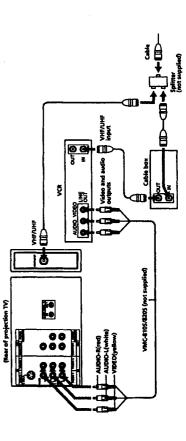


Note

• To consect a monaural VCR, connect the audio output of the
• To Councet a monaural VCR, councet the audio output of the
TV.

Do not connect the cable to the SVIDEO connector on the projection TV.

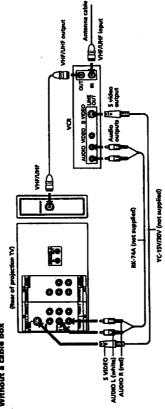
### With a cable box



Whenever you connect the cable to the S VIDEO connector, the projection TV automatically receives S To an S video equipped VCR If your VCR has an S video output jack, make the connection as follows.

### Without a cable box

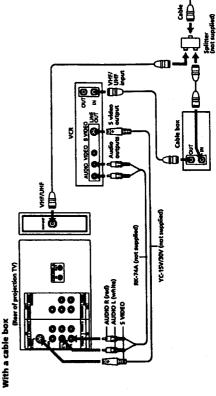
video signals.



Note

Video signals are composed of Y (furnitance) and C (druona)

gagnal. The 5 connection sends the two signals separately
preventing degradation, and gives better picture quality
compared to conventional connection.



8-EN | Getting Started

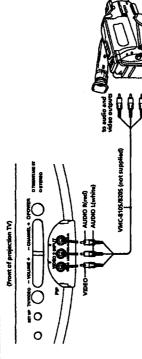
### 10-EN | Getting Started

Getting Started | 9-EN

## Connecting a camcorder

This connection is convenient for watching the picture

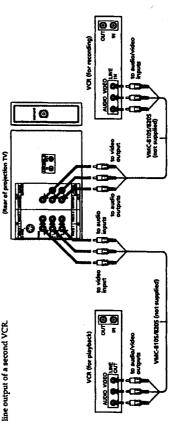
from a camcorder.



To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO L (MONO) of VIDEO 2 INPUT on the projection TV.

# Connecting two VCRs for tape editing

You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.



Motas

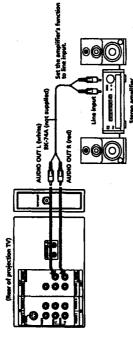
• Do not change the input signal while editing, or the output signal will also change.

• When connecting a single VCR to the projection TV, do not connect MOVITOR to The VCR's line input, while at the same time connecting from the projection TV's VIDEO IN jacks to the VCR's line output.

• You can use the 5 video connects to connect a VCR for playback and the composite video jack to connect a VCR for recording.

Connecting an audio system

When connecting audio equipment, see page 24 for more information.

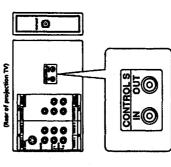


You can adjust the bass, treble and balance, or select surround or an MTS (Multichannel TV Sound) mode with the supplied remote commander.

# Connecting other Sony equipment with CONTROL S jack

This feature allows you to control your projection TV and other Sony equipment with one remote commander. To control other Sony equipment with the projection TV's remote commander, connect the input of the equipment to CONTROL S OUT jack on the projection TV.

To control the projection TV with the remote commander of other Sony equipment, connect the output of the equipment to CONTROL S IN jack on the projection TV.



### Step 3: Setting up commander the remote

Insert one size AA (R6) battery (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.



- With normal use, the battery should last for approximately six
- If you do not use the remote commander for an extended period of time, remove the battery to avoid possible damage
- from battery leakage. Do not handle the remote commander roughly. Do not drop it,

# step on it or let it get wet. Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

### automatically (AUTO Step 4: Setting up the projection TV SET UP)

You can set up your projection TV easily by using AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the onscreen menu language. To set up the TV manually, see "Presetting channels" (page 15), "Setting cable TV on or off" (page 14), "Adjusting convergence" (page 13) and "Changing the menu language" (page 15). If the TV is set to a video input, you cannot execute AUTO SET UP. Press TV/VIDEO so that a channel number appears.

VOLUME+ CHANNEL+ (front of projection TV)

1 Press POWER to turn the projection TV on.



Press SET UP on the front of the projection N

SET UP Œ

REGLAGE AUTO: [VOL+] AUTO AJUSTES: [CH-] AUTO SET UP : [CH+] Press MIM 10 Exit

If you prefer Spanish or French to English, you can change the on-screen menu language. Press CHANNEL – for Spanish or VOLUME+ for French. Press CHANNEL+ to start AUTO SET UP. m



NO.

CONTINUE TO AUTO PROGRAM!

All of the menus will be set to the factory preset condition in the selected language.

(continued)

Getting Started | 11-EN

# 4 Press CHANNEL+ to preset channels.



automatically. When all the receivable channels are "AUTO PROGRAM" appears on the screen and the stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CATV is set to ON TV starts scanning and presetting channels automatically.

CONTINUE TO CONVENCENCE?

# 5 Adjust convergence. (1) Press CHANNEL+. The CONVERGENCE adjustment screen



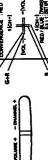
1001 NED / BLUE : INTEREST

(2) Press TV/VIDEO to select RED or BLUE.

CONVERGENCE : RED



MOL-1- = +MOL-1 PED/BLUE (TWEST) (3) Using CHANNEL+/- or VOLUME+/-, move the line until it converges with the center green



To move horizontal line up/down, press CHANNEL +/-. To move vertical line right/left, press VOLUME+/-.

(4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a

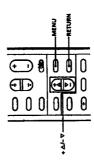
Mart - - - Mari PED / BLUE : Trweed CONVERGENCE : BLUE Ė

If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Press VOLUME - in step 3. The functions and menus To preview the main functions (DEMO) are displayed one by one

## Erasing or adding channels

channels or add the channels you want. Preset channels during the day rather than late at night, when After AUTO SET UP you can erase unnecessary some channels may not be broadcasting



1 Press MENU. The main menu appears.



2 Press + △ or – ∇ to move the cursor (₱) to SET UP and press RETURN.
The SET UP menu appears.



Use 4 EDE Exit 980 CONVENIENCE CADE

### Make sure the cursor (Þ) is beside CHANNEL ERASE/ADD and press RETURN. m

If the cursor is not beside CHANNEL ERASE/ ADD, press +  $\Delta$  or -  $\nabla$  to move the cursor and press RETURN. The CHANNEL ERASE/ADD menu appears.





### Use + 1118

Erase and/or add the channel you want:

4

- (2) Press CH + or to select the channel you want To erase an unwanted channel (1) Make sure the cursor (P) is beside ERASE.
  - Selected channel nuc





### (3) Press RETURN.

9

The indication "-" appears beside the channel number, showing that the channel is erased from the preset memory.



- To add a channel that you want
  (1) Press +  $\Delta$  or  $\nabla$  to select ADD.
  (2) Press 0 9 button to select the channel you want to add and press ENTER.

Selected channel numb

ଠ୍ର





Press RETURN.
The indication "+" appears beside the channel number, showing that the channel is added to the preset memory. ව



- 5 To erase and/or add other channels, repeat step 4.
- 6 When you finish, press MENU.



- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and vice versa.
  - If more than 90 seconds elapse after you press a button, the menu disappears automatically.

### Adjusting convergence (CONVERGENCE)

converge, the color is poor and the picture blurs. To You do not have to do this procedure if you execute AUTO SET UP (page 11). Do this procudure only when you want to adjust it manually. The projection tube image appears on the screen in three layers (red, green and blue). If they do not correct this, adjust convergence.

- 1 Press MENU.
- Z Press + △ or ▽ to move the cursor (►) to SET UP and press RETURN.

(continued)

### Setting cable TV on or off

3 Press + △ or − ♥ to move the cursor (▶) to CONVERGENCE and press RETURN. The CONVERGENCE adjustment screen appears.

system, set CABLE to ON, the factory setting. If not, set If you have connected the projection TV to a cable TV CABLE to OFF.

You do not have to do this procedure if you execute AUTO SET UP (page 11). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + △ or ▽ to move the cursor (►) to SET UP and press RETURN.

Press +  $\triangle$  or -  $\forall$  to move the cursor ( $\triangleright$ ) to the symbol showing the line you want to adjust, and press RETURN.

4

**SCONVERGENCE** 

3 Press +  $\Delta$  or - $\nabla$  to move the cursor ( $\triangleright$ ) to CABLE and press RETURN.



Use & Car Exit

IRED: Red vertical line (left/right adjustment)
—RED: Red horbzonell line (lup/down adjustment)
IBLUE: Bitue vertical line (left/right adjustment)
—BLUE: Blue horizontal line (up/down adjustment)

4 Press + A or - V to select ON or OFF and press RETURN.



5 Press + △ or - ∇ to move the line until it converges with the center green line, and press RETURN.

- To move up/right, press +  $\Delta$ . To move down/left, press  $\nabla$ .
- 6 Repeat steps 4 and 5 to adjust other lines until all three lines converge and are seen as a white cross.
- Press MENU to return to the original screen

5 Press MENU to return to the original screen. Note

(AGLE appears in black, the projection TV is set to a video input and you cannot select CABLE. Press TV on the remote commander so that a channel number appears. MENN SENSE SAN SENSE SEN Use 4 Ers Exit

Getting Started | 13-EN

14-EN | Getting Started

Getting Started | 15-EN

### Presetting channels

AUTO SET UP (page 11). Do this procedure only when You do not have to do this procedure if you execute You can preset TV channels easily by AUTO you want to set it manually. PROGRAM feature.

### 1 Press MENU.

Press +  $\triangle$  or -  $\nabla$  to move the cursor (P) to SET UP and press RETURN.



Press +  $\Delta$  or -  $\nabla$  to move the cursor ( $\blacktriangleright$ ) to AUTO PROGRAM and press RETURN.

AUTO PROGRAM

'AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable disappears and the lowest numbered channel is channels are stored, "AUTO PROGRAM"

Press MENU to return to the original screen.

• If AUTO PROCRAM appears in black in the SET UP menu, the projection IV is set to a video input and you cannot select AUTO PROCRAM. Press TV/VIDEO art IV on the remote commander so that a channel number appears.

## Changing the menu language

You do not have to do this procedure if you execute AUTO SET UP (page 11). Do this procedure only when you want to set it manually. If you prefer Spanish or French to English, you can change the menu language.

### Press MENU.

- Press +  $\triangle$  or  $\nabla$  to move the cursor ( $\triangleright$ ) to SET UP and press RETURN. ~
- Press +  $\triangle$  or  $\nabla$  to move the cursor ( $\triangleright$ ) to LANGUAGE and press RETURN. m



Press +  $\Delta$  or ~  $\nabla$  to select the language and press RETURN. 4

The menu in selected language appears.



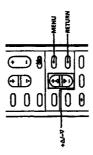
Press MENU to return to the original screen S

Note

• Even when you select Spanish or French language, certain parts
of the menus remain in English.

### surround sound Listening to (SURROUND)

The SURROUND feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only effective for stereo programs.



- 1 Press MENU.
- 2 Press + △ or ♥ to select AUDIO and press RETURN.
- Press + △ or ▽ to select SURROUND and press RETURN. m



CAMDIO CAMDIO CAMBRIE CAMBRIE

Une # ETH Exit ETH

Press + △ or ~ ∇ to select ON and press RETURN.

4

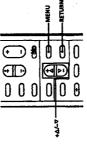


TOWNS TO SERVICE STATE OF SERVICE STATE STATE OF SERVICE STATE OF SERVICE STATE STATE OF SERVICE STATE Jacon Erin Er

### bilingual programs Selecting stereo or

(MTS)

the choice to enjoy stereo sound or Second Audio Programs (SAP) when available. The initial setting is The Multichannel TV Sound (MTS) feature gives you stereo sound (MAIN).



- 1 Press MENU.
- 2 Press + △ or ▽ to select AUDIO and press RETURN.
- Press + △ or ▽ to select MTS and press m



MANDIO FINANCE ENTRANCE ENTRAN

Use : ET E-1: ET 4 Press + △ or - ▽ to select MAIN, SAP or MONO and press RETURN.



Oppution Officers of Section 1997 Use & ES ES ES ES Listen to stereo sound. The STEREO indicator on the projection TV lights up while a stereo broadcast is received. ٩ Choose

Listen to bilingual programs.
The sound of non-SAP programs will be muted when SAP is selected. Reduce noise during stereo broadcasts. MONO S.

Note

• Stereo and SAP sounds are subject to program source.

Operations | 23-EN

### saving time (раушент Setting daylight

SAVING)

If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

Daylight saving start

• After the first Sunday in April, set DAYLIGHT

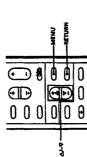
\$ASVING to YES. Current time (page 26), On/off

Timer (page 27) and Channel Block (page 28) settings
automatically move one hour ahead.

Daylight saving end

• After the last Sunday in October, set DAYLIGHT

• AAVING to NO. Current time, On/off Timer and
Channel Block settings automatically move one hour
back.



### 1 Press MENU.

2 Press +  $\Delta$  or -  $\nabla$  to move the cursor ( $\triangleright$ ) to TIMER/CH BLOCK and press RETURN.





3 Press + △ or ~ ∇ to select DAYLIGHT SAVING and press RETURN.





4 Press + △ or - ▽ to select YES or NO and press RETURN.





70	Set for daylight saving start	Set for daylight saving end
Choose	YES	2

## Setting the clock

(CURRENT TIME SET)



Set the dey. Earr

MENU 12:00 AL

4 Set the current time.
(1) Press RETURN to start setting the time.

(2) Press + △ or – ¬ to set the day and press RETURN.

Set the current time before using On/off Timer (page 27) and Channel Block features (page 28). For example, set the clock to 3:15 p.m., Monday.

0

(3) Using + Δ or – ∇ and RETURN, set hour and minute in the same way as in step (2). When you press RETURN after setting the minute, the clock starts.

-RETURN

- A-/4+



2 Press +  $\Delta$  or -  $\nabla$  to select TIMER/CH BLOCK and press RETURN.

1 Press MENU.

STIMENCH BLOCK PCUMMENT TIME SET

MENU 3:15 N



If you make a mistake while setting the time Press RESET while the CURRENT TIME SET menu is displayed, then repeat step 4.

To display the current time Press DISPLAY.

If you need to set DAYLIGHT SAVING, follow the

procedure on the previous page.

Use 6 ETS Ex 11 ED DAYLIGHT SAVING:NO SMENU

M----

If you unplug the projection TV or a power interruption occurs, the clock will be erased. Reset the current time.

Use & Erit Erit 

3 Make sure the cursor (P) is beside CURRENT TIME SET, and press RETURN.
If the cursor is not beside CURRENT TIME SET, press + Δ or – ∇ to move the cursor and press RETURN.

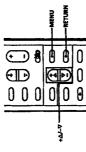
Operations | 25-EN

26-EN | Operations

### Setting the timer to turn the projection IV on and off (ON/OFF

You can set the projection TV to turn on and off at the time you specify. Make sure the clock is set correctly. If it is not, set the clock first.

TIMER)



1 Press MENU.

Press +  $\triangle$  or -  $\nabla$  to select TIMENCH BLOCK and press RETURN. Press +  $\Delta$  or –  $\nabla$  to select ON/OFF TIMER and press RETURN. m





(1) Press + △ or - ♥ to select program 1 or 2 and 4 Enter the ON/OFF TIMER setting. press RETURN.

RETURN. Each time you press +  $\Delta$  or -  $\nabla$ , the EVERY SUN-SAT→EVERY MON-FEJ→
SUNDAY→MONDAY→...→SATURDAY→
EVERY SUNDAY→EVERY MONDAY →
...→EVERY SATURDAY (2) Press + △ or - ¬ to set the days and press days cycle as shown below.





Set the time. Exit Ex 1. EVERY SUB-SAT BONIOFF TIMER

minute) that you want to turn on the projection TV and press RETURN. (3) Press + △ or - ♥ to set the time (hour then



7 :30M IN CH

Des the duration. SOM/OFF THER

You can set the hour duration by one hour up to (4) Press  $+ \triangle$  or  $- \nabla$  to set the hour duration and a maximum of six hours. press RETURN.





(5) Press +  $\Delta$  or -  $\nabla$  to select the channel and press RETURN.





The TIMER/STAND BY indicator on the projection

5 To set the other program, press RETURN and repeat step 4.

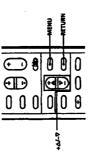
One minute before the projection TV switches to turn off, a message "TV will turn off." is displayed on the

Press RESET on the remote commander To cancel the timer

If you unplug the projection TV or a power interruption occurs, ON/OFF TIMER settings will be erased. Reset the current time, then set the timer.

### channel (CHANNEL BLOCK) **Blocking out a**

watching unsuitable programs. Make sure the clock is set correctly. If it is not, set the clock first (page 26). This feature allows you to prevent children from



1 Press MENU.

Press +  $\triangle$  or -  $\nabla$  to select TIMER/CH BLOCK and press RETURN. ~

Press + △ or - ▽ to select CHANNEL BLOCK and press RETURN m





Beigial and " "Erit en

(1) Press + △ or − ∇ to select program 1 or 2 and press RETURN. Enter a CHANNEL BLOCK setting. 4

RETURN. Each time you press + A or - V, the days cycle as shown below.

SVERY SIN-SAT.→EVERY MON-FRI→
SUNDAY→MONDAY→
EVERY SINDAY→EVERY MONDAY→
EVERY SINDAY→EVERY MONDAY→ (2) Press + △ or ~ ∇ to set the days and press







minute) that you want to start blocking the channel and press RETURN. (3) Press + △ or - ∇ to set the time (hour then



Use & Total Cretion.

(4) Press +  $\Delta$  or -  $\nabla$  to select the hour duration you Each time you press RETURN, the hour duration increases by one hour up to a want to block and press RETURN. maximum of 12 hours.





(5) Press +  $\Delta$  or -  $\nabla$  to select the channel and press RETURN.





set, the message "BLOCKED" appears and the picture is blocked and the sound is muted. If you select the blocked channel during the time you

To cance! a CHANNEL BLOCK setting

 If the CHANNEL BLOCK and ON/OFF TIMER settings are overlapped, the later time setting has priority over the other setting. Press RESET on the remote commander.

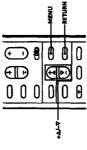
Operations | 27-Eh

28-EN | Operations

### buttons (CH CAPTION/ **Customizing the** channel number GUIDE)

You can choose up to 12 channels, caption each channel, and assign a specific channel number button to each channel. This feature allows you to select your forovite channels easily by name. For example, you can name channel 20 "ESFN," and assign the channel number 4 button to it.

# Setting captions to favorite channels



### 1 Press MENU.

- 2 Press + △ or ~ ∇ to select SET UP and press RETURN.
- Press +  $\Delta$  or  $\nabla$  to select CH CAPTION/GUIDE and press RETURN m





### 4 Press RETURN again.



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	'₹		E	
0	9	9 9	8	
θ	Θ	9		

### OCH CAPTION/GUIDE

Press +  $\Delta$  or -  $\nabla$  to select a channel guide number button and press RETURN. Each time you press +  $\Delta$  or -  $\nabla$ , the channel positions change to red in turns. The channel number button you select will be the one you press to call up your favorite channel.

To erase a caption Press RESET after step 4.





### 

• The position number you already selected appears in yellow.

• If the CH CAPTION/GUIDE menu appears in back, the operation of the select of the operation of the set in a video input, and you cannot select CH CAPTION/GUIDE. Press IY so that a channel number

appears.
If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Selecting a captioned channel

000

000

# Press + $\Delta$ or ~ $\nabla$ to select the channel that you want to caption and press RETURN.

φ





### ${f 7}$ Enter the letters or numbers (up to four) to caption the channel:

Each time you press  $+\Delta$  or  $-\nabla$ , the letter (number) changes as shown below. (1) Press +  $\Delta$  or -  $\nabla$  to select the first letter (number).

0--1---..-9---A--B---..--Z---&--/-----\_(blank space)



### (2) Press RETURN



CH CAPTION/GUIDE

(3) Repeat steps (1) and (2) to select the remaining letters (numbers) and press RETURN.

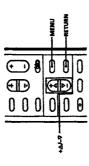


(continued) Operations | 29-Ek

# Setting video labels 8 Repeat steps 4 to 7 to caption other channels.

(VIDEO LABEL)

# This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN 85 VHS.



- 1 Press MENU.
- 2 Press +  $\triangle$  or  $\nabla$  to select SET UP and press RETURN.
- 3 Press + △ or ¬ to select VIDEO LABEL and press RETURN.

The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.

Press CH GUIDE.

**⊙ ⊕** 

G GUDE

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O CHI O AIC O NEC OBSTN O O O O

CHANNEL QUIDE



4 Press + △ or - ¬ to select the input mode you want to label and press RETURN.

2 Press a channel number button, the DISPLAY or ENTER button to select the channel you want.



To cancel the CHANNEL GUIDE menu Press CH GUIDE again.



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## Press + $\Delta$ or - $\nabla$ to select the label and press RETURN.



Use e Ere Ext! ED VIDEO 1: VIDEO 3: VID

Each time you press +  $\Delta$  or -  $\nabla$ , the label changes as shown below. VIDEO 1-S-VIDEO-BETA-8mm-VHS-LD-DSS

VIDEO 2→BETA→8mm→VHS→LD→DSS VIDEO 2

VIDEO 3→BETA→8mm→VHS→LD→DSS VIDEO 3

6 Repeat steps 4 and 5 to label other input

If more than 90 seconds elapse after you press a button, the menu disappears automatically.

### Displaying Caption Vision (CAPTION VISION!

(SQX

Some programs are broadcast with Caption Vision. To display Caption Vision, select either CCI, CC2, CC3, CC4, TEXT1, TEXT2 or TEXT4 from the menu. CCI, CC2, CC3 or CC4 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CCI for most

programs.)
TEXTJ, TEXT2 or TEXT4 shows you text that is information presented using either half or the whole screen. It is not usually related to the program.

1 Press MENU.

2 Press + △ or ~ ∇ to select CAPTION VISION XDS and press RETURN.





Press +  $\Delta$  or -  $\nabla$  to select the caption type The selected caption type is colored green. and press RETURN. m





(continued)

### Operating video equipment on-screen information-XDS\*--Caption Vision or Text Each time you press DISPLAY, the display changes as

Press DISPLAY on the remote commander. To turn off the captions or text

You can operate a piece of video equipment that has an infrared remote sensor with the supplied remote commander. Before operating, set the manufacturer's code number.

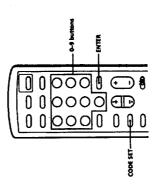
# Setting the manufacturer's code

Captions may appear with a white box or another error instead
of a certain word. Poor reception of TV programs can also
cause errors in Closed Caption.

Some programs are broadcast with XDS service which shows a
network name, program leane, program length, call letters and
time in ablow data. When you select XDS with the DISPLAY
button, This information will be displayed on the screen if the
broadcaster offers this service.

"DISPLAY OFF" goes off after three seconds.

— DISPLAY OFF ←



While pressing CODE SET, press 0 – 9 to enter the manufacturer's code number (see the chart in the right column) and press ENTER. For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.

# Manufacturer code numbers

Code number	01, 02, 03, 04	8	22,30,33	10, 11, 12, 15	82	82,08	22	07, 08, 36	16,35	65,06,09	18, 19, 26, 27	82	16, 23, 31	95,06	95,06	65,06,09	95,06	92,08	24, 32	11, 15	77	13, 14	×	05,06,09	82	28,23	20,21	ឧ	17
Manufacturer	SONY	CANON	EMERSON	FISHER	FUNAL	GENERAL ELECTRIC	GOLDSTAR	нтасн	2/1	MAGNAVOX	MITSUBISHI	MULTITECH	UEZ	PANASONIC	PHILCO	PHILIPS	OUASAR	KCA.	SAMSUNG	SANYO	SCOTT	SHARP	SHINTOM	SYLVANIA	SYMPHONIC	TEICHIKA	TOSHIBA	TOTE VISION	ZENITH

### MDP

- In more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.

  In some rare cases, you may not be able to operate your not-sony video equipment with this remote commander. This is because your equipment in white as code that is not provided with this remote commander. In this case, the equipment's own remote control unit.

  The code in numbers for Sony equipment are assigned at the factory as follows:

  Bea, ED Bea VCRs.

  WHS VCR.

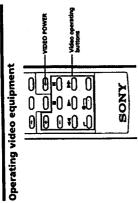
  OR (preset code for this remote

01 02 03 (preset code for this remote commander)

Caution

When you remove a battery from the remote commander, the code may revert to 01. Reset the codes each time you replace the battery, if necessary.

# Operating a cable



Use the video operating buttons on the remote commander to operate the video equipment.

Buttons on the remote	commander	Press VIDEO POWER	s Press CH +/-		Press •	Press III	Press 🕶	Press 🛧	Press II	re Press ▶▶ or ♣◀ during	ward nlavback
Operating a VCR		To turn on or off	To change channels	To record	To play	To stop	To fast forward	To rewind the tape	To pause	To search the picture	forward and hackward

Operating a laser-disk player To play To pause To search the picture forward and backward	Battons on the remote commander Press P Press II Press II Press II Press II Press II Press II Press again Kep pressing PP or 44 during playback, To resume normal playback,
To search the chapter	release the button. Press CH +/-

If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

3 Use CABLE POWER and the projection TV control buttons (0 – 9, ENTER, JUMP and CH +/-) to operate the cable box.



₹(+

You can operate a connected cable box with the supplied remote commander. Before operating, set the manufacturer's code number.

0000 0000 0000

To operate the projection TV Set the CABLE BOX/TV selector to TV. Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box Refer to the operating instructions that come with the cable box.

ware and code numbers (rable box)

¥ 5 1

0 0

(a) Fr. 1000

JUMP

الاقال المادة المادة والمادة المادة المادة المادة	rrer Code number	60, 61, 62, 63, 64, 65, 73	69, 70	CATLANTA 66, 67	な。な	1
Manuactur	Manufacturer	JERROLD	PIONEER	SCIENTIFIC ATLANTA	TOCOM	į

Set the CABLE BOXITV selector to CABLE BOX.

- \* If more than one code number is listed, try entering them one by one usual you come to the correct code for your equipment.

  I you enter a new code number, the code number you previously entered at that setting is ensect.

  In some zare case, your equipment may use a code that is not provided with this remote commander and you may not be provided with this remote commander and you really commander and you may not be opened your cable box with the supplied remote commander. In this case, use the equipment's own remote commander. In this case, use the equipment's own remote control unit.

  \* When you remove a battery from the remote commander, the code may be reased. Reset the code each time you replace the battery, if necessary.

Z While pressing CODE SET, press 0 – 9 to enter the manufacturer's code number (see the chart below) and press ENTER. For example, to operate a Zenith able box, press 6 and 8 and press ENTER.

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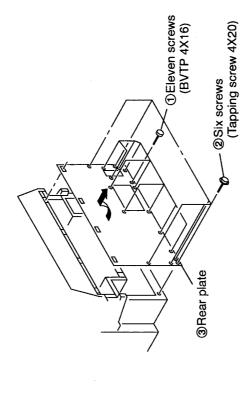
Operations | 33-EN

### DISASSEMBLY **SECTION 2**

### **REAR PLATE REMOVAL** (KP-46S15/53S15) 2-1-2.

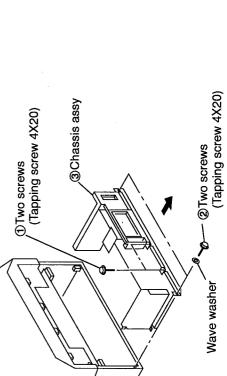
2-1-1. REAR PLATE REMOVAL

(KP-41T15)



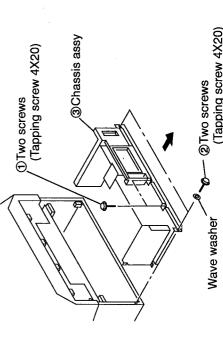
# · Remove the chassis assy (Refer to 2-2.) 2-3. SERVICE POSITION

Chassis assy



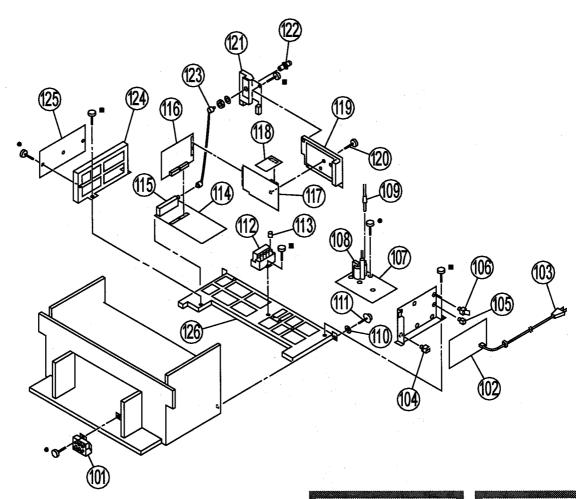
# ①Twelve screws (BVTP 4X16) ②Rear plate (41)

# 2-2. CHASSIS ASSY REMOVAL



### 5-3. CHASSIS

●: 7-685-648-79 ■: 7-685-663-79 + BVTP 3×12 + BVTP 4×16



The components identified by shading and mark \(\Lambda\) are critical for safety.
Replace only with part number specified.

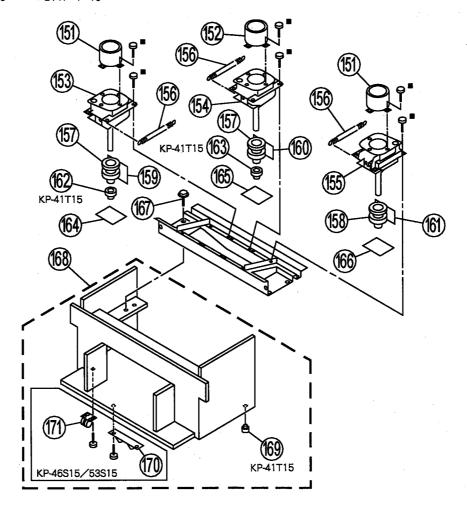
Les composants identifies par une trame et une marque \(\frac{\Lambda}{\text{total}}\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO. PART NO.	DESCRIPTION	REMARK   RE	EF.NO.	PART NO.	DESCRIPTION	REMARK
101	RESISTOR ASSY (HIGH-VOLTAGE) G BOARD, COMPLETE CORD, POWER (WITH NOISE PILTER) 7 HOLDER, PC BOARD HOLDER, PCB	.0A/125V	117 118	*A-1306-498-A *A-1373-511-A *A-1195-062-A	M BOARD, COMPLETE (KP-41T15) M BOARD, COMPLETE (KP-46S15/53S1 U BOARD, COMPLETE P BOARD, COMPLETE TERMINAL BOARD (A)	5)
107 *A-1341-885-A 108 <u>A</u> -8-598-939-00	HOLDER, PCB E BOARD, COMPLETE TRANSPORMER ASSY, FLYBACK (HX-26 LEAD ASSY, HV WASHER, WAVE	31/A4S)		4-047-952-01 1-561-306-00 1-556-945-21	SCREW (3X12), TAPPING, +BV TERMINAL BOARD (B) JACK, PIN (F) CABLE, P-P BRACKET, D PC BOARD	
112 <u>A</u> 8-598-955-00 113 4-373-137-01	SCREW (4X20), TAPPING BLOCK ASSY, HIGH VOLTAGE CAP (Z), RUBBER A BOARD, COMPLETE TUNER BTF-WA402				D BOARD, COMPLETE BRACKET, MAIN PC BOARD	

### **5-4. PICTURE TUBE**

**■**: 7-685-663-79

+ BVTP 4×16



The components identified by shading and mark ∆ are critical for safety. Replace only with part number specified. Les composants identifies par une trame et une marque <u>f</u> sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO	D. PART NO.	DESCRIPTION	REMARK
	4-034-057-01 4-034-057-11 \$-736-080-05 \$8-736-082-05 \$8-736-078-05	LENS (LINNIT) LENS (LINNIT) PICTURE TUBE 07MAB5(R) (KP-41T15 PICTURE TUBE 07MAB6(R) (KP-53S15 PICTURE TUBE 07MAB5(G)	/46S15) )		A.1-452-790-21 A.1-452-790-11 *A-1331-408-A *A-1331-409-A *A-1331-410-A	CR BOARD, COMPLETE	
156 157	▲ 8-736-081-05 4-048-142-01 ▲ 8-451-463-11	PICTURE TUBE 07MAB5(B) (KP-41715 PICTURE TUBE 07MAB6(B) (KP-53S15 SPRING, TENSION DY Y829PAZN (R), (G) DY Y829PAZN2 (B)	/46S15) )	167 168 169	4-041-164-11 *X-4032-547-1 *X-4032-615-1 *X-4032-616-1 4-047-987-01		169 120,121 120,121
159 160 161	*A-1390-487-A *A-1390-513-A *A-1390-489-A *A-1390-512-A *A-1390-491-A	ZR BOARD, COMPLETE (KP-41T15) ZR BOARD, COMPLETE (KP-46S15/53S ZG BOARD, COMPLETE (KP-41T15) ZG BOARD, COMPLETE (KP-46S15/53S ZB BOARD, COMPLETE		170 171	4-048-175-01 4-040-755-01	FOOT, PLASTIC (KP46S15/53S15) CASTER (DIA.30) (KP46S15/53S1!	5)



### SECTION 6 ELECTRICAL PARTS LIST

### NOTE:

The components identified by shading and mark \( \Lambda \) are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- RESISTORS
- All resistors are in ohms.
- F: nonflammable

When indicating parts by reference number, please include the board name.

 $\begin{array}{ccc} \text{CAPACITORS} & \text{COILS} \\ \bullet \text{ MF} \colon \mu F, \text{ PF} \colon \mu \, \mu F & \bullet \text{ MMH} \colon \text{mH, UH} \colon \mu H \end{array}$ 

• The components identified by 

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
	*A-1195-062-A	P BOARD, COMPLETE			C3249 C3250 C3251 C3252		CERAMIC CHIP 100PF CERAMIC CHIP 68PF CERAMIC CHIP 0.01MF CERAMIC CHIP 27PF	5% 5% 10% 5%	50V 50V 50V 50V
<b>4200</b> *	<caf< td=""><td>PACITOR&gt;</td><td>008</td><td>* &lt; 11</td><td>C3253</td><td></td><td></td><td></td><td>50V 50V</td></caf<>	PACITOR>	008	* < 11	C3253				50V 50V
C3201 C3203 C3204 C3205 C3206	1-104-664-11 1-164-004-11 1-126-964-11 1-126-964-11	ELECT 47MF CERAMIC CHIP 0.1MF ELECT 10MF ELECT 10MF ELECT 10MF	10% 20% 20% 20%	25V 25V 50V 50V			CERAMIC CHIP 100PF		50V 50V 50V
C3207	1-163-117-00	CERAMIC CHIP 100PF	, 20% 5%	50V	C3258 C3259	1-163-113-00 1-163-111-00	CERAMIC CHIP 68PF CERAMIC CHIP 56PF CERAMIC CHIP 120PF CERAMIC CHIP 0.001MF	5% 5% 5%	50V 50V
C3208 C3209 C3210 C3212	1-163-117-00 1-126-962-11 1-104-664-11 1-126-962-11	CERAMIC CHIP 100PF CERAMIC CHIP 100PF ELECT 3.3MF ELECT 47MF BLECT 3.3MF	5% 20% 20% 20%	50V 50V 16V 50V	C3260 C3261 C3263	1-163-119-00 1-163-141-00 1-163-141-00	CERAMIC CHIP 120PF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5% 5%	50V 50V 50V
C3213	1-164-346-11	CERAMIC CHIP IMF	20%	167	! C3265	1-163-141-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF	5%	50V 50V
C3214 C3215 C3216	1-164-346-11 1-164-346-11 1-164-005-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 0.47M CERAMIC CHIP 1MF	ì	16V 16V 25V	0,2401	1-163-141-00 1-163-141-00 1-163-141-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5% 5%	50V 50V 50V
C3217	1-164-346-11	CERAMIC CHIP IMP		16V	C3269	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V 50V
C3219 C3220 C3221	1-126-941-11 1-164-346-11 1-164-346-11	CERAMIC CHIP 1MF BLECT 470MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 0.33M	20%	16V 16V 16V	C3271 C3272	1-165-319-11 1-165-319-11 1-163-109-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 47PF	<b>5</b> ሂ	50V 50V 50V
C3222	1-164-336-11	CERAMIC CHIP 0.33M	ì	25 <b>V</b>	C3274	1-163-101-00	CERAMIC CHIP 22PF	5%	50V
C3223 C3224 C3225 C3226	1-164-336-11 1-164-222-11 1-164-222-11 1-164-005-11	CERAMIC CHIP 0.33M CERAMIC CHIP 0.22M CERAMIC CHIP 0.22M CERAMIC CHIP 0.47M CERAMIC CHIP 1MF	? ? ?	25V 25V 25V 25V	C3275 C3276 C3277 C3278	1-163-101-00 1-163-111-00 1-163-101-00 1-163-101-00	CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 56PF CERAMIC CHIP 22PF CERAMIC CHIP 22PF	5% 5% 5% 5%	50V 50V 50V 50V
C3227 C3228	1-163-117-00	CERAMIC CHIP IMP	5%	101	C3279 C3280	1-163-141-00 1-126-964-11	CERAMIC CHIP 0.001MF ELECT 10MF CERAMIC CHIP 1MF	5% 20%	50V 50V
C3229 C3230	1-163-093-00 1-163-141-00	CERAMIC CHIP 100PF CERAMIC CHIP 10PF CERAMIC CHIP 0.001 CERAMIC CHIP 220PF CERAMIC CHIP 100PF	5% KF 5%	50V 50V	C3282	1-164-346-11	CERAMIC CHIP IMP		16V
C3231 C3232				50V 50V		<com< td=""><td>INECTOR&gt;</td><td></td><td></td></com<>	INECTOR>		
C3233 C3234	1-164-232-11 1-164-232-11	CERAMIC CHIP 0.01M CERAMIC CHIP 0.01M	F 10% F 10%	50V	CN150	1-573-297-21	CONNECTOR, BOARD TO BOAR	RD 18P	
C3235 C3236	1-164-232-11 1-164-232-11	CERAMIC CHIP 0.01M CERAMIC CHIP 0.01M CERAMIC CHIP 0.01M CERAMIC CHIP 0.01M CERAMIC CHIP 0.01M	F 10%	50V 50V		<010	DDE>		
C3237 C3238	1-163-101-00	CERAMIC CHIP U.UIM	t 10% 5%	50V 50V	D3202	8-719-031-68 8-719-404-46	DIODE HVU359TRF		
C3239 C3240	1-163-141-00 1-163-101-00	CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 22PF	MF 5% 5%	50V 50V	D3208 D3209	8-719-110-17 8-719-110-17	DIODE RD10SEB2 DIODE RD10SEB2		
C3241 C3242	1-103-103-00	CERAMIC CHIP 27PF	5%	50V 50V					
C3243 C3244	1-163-117-00 1-163-113-00		5% 5%	50V 50V	10320	<1C> 10 8-759-288-13			
C3245 C3246	1-164-232-11 1-164-232-11	CERAMIC CHIP 0.01M CERAMIC CHIP 0.01M	F 10% F 10%	50V 50V	1C320	1 8-759-093-29 2 8-759-093-28	IC MB86144BPF-G-BND IC MB40176PF-G-BND-EF		
C3247 C3248		CERAMIC CHIP 0.022 CERAMIC CHIP 220PF		50V 50V	10320 10320	3 8-759-093-28 4 8-759-093-25	IC MB40176PF-G-BND-EF IC MB3512PFQ		



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
I C3205 8	8-759-243-19 <coil< td=""><td></td><td></td><td></td><td></td><td></td><td>R3241 R3242</td><td>1-216-049-00 1-216-043-91 1-216-057-00 1-216-049-00</td><td>METAL GLAZE METAL GLAZE</td><td>1K 560 2.2K 1K</td><td>5% 5%</td><td>1/10W 1/10W 1/10W 1/10W</td><td></td></coil<>						R3241 R3242	1-216-049-00 1-216-043-91 1-216-057-00 1-216-049-00	METAL GLAZE METAL GLAZE	1K 560 2.2K 1K	5% 5%	1/10W 1/10W 1/10W 1/10W	
L3202 1 L3203 1 L3204 1	1-410-470-11 1-408-424-00 1-408-424-00 1-410-476-11 1-410-470-11	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	10UH 180UH 180UH 33UH 10UH				R3243 R3244 R3245 R3246 R3247	1-216-025-00 1-216-025-00 1-216-025-00 1-216-069-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
L3207 L3208 L3209	1-410-387-11 1-410-387-11 1-410-387-11 1-410-387-11		33UH 33UH 33UH 33UH				R3248 R3249 R3250 R3251 R3252	1-216-295-00 1-216-057-00 1-216-043-91 1-216-049-00 1-216-043-91	CONDUCTOR, CH METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	IP 2.2K 560 1K 560	5%	1/10W 1/10W 1/10W 1/10W	
	<trai< td=""><td>VSISTOR&gt;</td><td></td><td></td><td></td><td></td><td>R3253 R3254</td><td>1-216-065-00</td><td>METAL GLAZE METAL GLAZE</td><td>4.7K 560</td><td>5% 5%</td><td>1/10W 1/10W</td><td></td></trai<>	VSISTOR>					R3253 R3254	1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 560	5% 5%	1/10W 1/10W	
Q3201 Q3202 Q3203 Q3204	8-729-216-22 8-729-422-27 8-729-216-22 8-729-216-22	TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA	11162-6 0601A-0 11162-6 11162-6				R3255 R3256 R3259	1-216-041-00 1-216-043-91 1-216-298-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 560 2.2	5% 5% 5% 5%	1/10W 1/10W 1/10W	
Q3206 Q3207 Q3208 Q3209	8-729-422-27 8-729-216-22 8-729-422-27 8-729-216-22	TRANSISTOR 2SA TRANSISTOR 2SI TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SA TRANSISTOR 2SA	0601A-0 11162-0 0601A-0 11162-0				R3260 R3263 R3264 R3265 R3266	1-216-073-00 1-216-025-00 1-216-025-00 1-216-049-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 100 100 1K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q3210	8-729-216-22	TRANSISTOR 2SA	A1162-0	i			R3267 R3268	1-216-055-00 1-216-053-00	METAL GLAZE	1.8K 1.5K 2.2K	5% 5%	1/10W 1/10W	
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td>R3269</td><td>1-216-057-00 1-216-657-11</td><td>METAL GLAZE METAL CHIP</td><td>1.8K</td><td>0.50%</td><td>1/10W 1/10W</td><td></td></res<>	ISTOR>					R3269	1-216-057-00 1-216-657-11	METAL GLAZE METAL CHIP	1.8K	0.50%	1/10W 1/10W	
R3201 R3202	1-216-097-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 10K	5% 5%	1/10W 1/10W		R3271	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R3204	1-216-025-00 1-216-025-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 1 <b>M</b>	5%	1/10W 1/10W 1/10W		R3273 R3274 R3275	1-216-073-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R3209	1-216-295-00 1-216-097-00 1-216-079-00 1-216-089-00	CONDUCTOR, CH METAL GLAZE METAL GLAZE METAL GLAZE	IP 100K 18K 47K 10K	5% 5% 5%	1/10W 1/10W 1/10W		R3277	1-216-298-00	METAL GLAZE  STAL>	2.2	5%	î/îŏ₩	
R3211	1-216-073-00				1/10W		X3201	1-567-878-11	VIBRATOR, CRY	STAL			
R3213	1-216-073-00 1-216-075-00 1-216-121-00	MRTAL GLAZE	10K 12K 1 M	5% 5% 5%	1/10W 1/10W 1/10W		1	1-567-878-11			*****	******	******
R3215 R3216	1-216-057-00 1-216-057-00			5% 5%	1/10W 1/10W 1/10W			*A-1297-476-A		PLETE			
R3218 R3219 R3220	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W			4-365-216-00 4-382-854-11	SPACER, MICA SCREW (M3X10)	), P, S	SW (+)	•	
	1-216-655-11 1-216-655-11	METAL CHIP	1.5K 1.5K	0.50%				<caf< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td><td></td></caf<>	PACITOR>				
R3223 R3224 R3225 R3226	1-216-025-00 1-216-049-00 1-216-025-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 1K 100 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C201 C202 C203 C204 C205	1-104-665-11 1-102-125-00 1-130-489-00 1-124-902-00 1-104-665-11	ELECT CERAMIC FILM ELECT ELECT	100MF 0.0047 0.033M 0.47MF 100MF	7MF 4F 3	20% 10% 5% 20% 20%	25V 50V 50V 50V 25V
R3228 R3229 R3230	1-216-647-11 1-216-045-00 1-216-073-00 1-216-073-00 1-216-001-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 680 10K 10K 10	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C206 C207 C208 C209 C210	1-124-902-00 1-124-903-11 1-124-768-11 1-124-903-11 1-102-125-00	ELECT ELECT ELECT ELECT CERAMIC	0.47MF 1MF 4.7MF 1MF 0.0047		20% 20% 20% 20% 10%	50V 50V 50V 50V 50V
R3234 R3235 R3236	1-216-083-00 1-216-049-00 1-216-651-11 1-216-043-91 1-216-065-00 1-216-043-91	METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	27K 1K 1K 560 4.7K	5% 5% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C211 C211 C212 C220 C221 C222	1-130-489-00 1-124-768-11 1-126-964-11 1-126-964-11 1-126-964-11	FILM ELECT ELECT ELECT	0.033N 4.7MF 10MF 10MF		5% 20% 20% 20% 20% 20%	50V 50V 50V 50V 50V
11.7671	1 410 047 71	HEIRE GEREE	טטע	J /6	1/10#		ı						



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C226 C232 C233	1-104-665-11 1-104-664-11 1-124-903-11	ELECT ELECT ELECT ELECT ELECT	10MF 100MF 47MF 1MF 47MF	20% 20% 20% 20% 20% 20%	50V 25V 25V 50V 25V	D201 D202 D220 D221 D231	8-719-110-17 8-719-110-17 8-719-911-19 8-719-911-19 8-719-911-19	DIODE RD10ESB2	
C240	1-124-902-00 1-104-665-11 1-126-943-11 1-126-943-11 1-137-399-11	ELECT ELECT ELECT ELECT FILM	0.47MF 100MF 2200MF 2200MF 0.1MF	20% 20% 20% 20% 5%	50V 25V 25V 25V 50V	D232 D262 D263 D264 D301	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-110-56	DIODE 1SS119-25 DIODE 1SS119-25 DIODE 1SS119-25	
C243 C244 C245	1-137-399-11	FILM FILM BLECT FILM BLECT	0.1MF 0.1MF 100MF 0.1MF 47MF	5% 5% 20% 5% 20%	50V 50V 25V 50V 25V	D302 D303 D304 D501	8-719-110-56 8-719-110-56 8-719-110-56 8-719-911-19	DIODE RD22ESBI DIODE RD22ESBI DIODE RD22ESBI DIODE ISS119-25	
C264 C265	1-104-665-11 1-104-665-11 1-104-665-11 1-104-665-11 1-104-664-11	BLECT BLECT BLECT BLECT BLECT	100MF 100MF 100MF 100MF 47MF	20% 20% 20% 20% 20%	25V 25V 25V 25V 25V	D502 D504 D505 D506 D507	8-719-109-72 8-719-911-19 8-719-911-19 8-719-300-80 8-719-018-82	DIODE 1SS119-25 DIODE RU-1C DIODE RGP02-20EL-6394	
C501 C502 C503 C504 C505	1-104-664-11 1-137-370-11	ELECT ELECT FILM CERAMIC FILM	0.47MF 47MF 0.01MF 100PF 0.022MF	20% 20% 5% 5% 5%	50V 25V 50V 50V 50V	D509 D510 D511 D1001	8-719-900-95 8-719-900-95 8-719-911-19 8-719-110-76	DIODE VO9G DIODE VO9G DIODE ISS119-25 DIODE RD33ESB1	
C506 C507 C508 C509 C510	1-107-638-11	ELECT FILM BLECT FILM CERAMIC	33MF 0.047MF 33MF 0.047MF 330PF	10% 20% 10%	160V 200V 160V 200V 500V	1C202 1C230	<1C> 8-759-135-80 8-759-090-21 8-759-190-89	IC UPC358C IC TDA8424 IC TDA7265	
C511 C512 C513 C514 C515	1-137-414-11 1-162-115-00 1-136-598-11 1-136-613-11 1-162-114-00	FILM CERAMIC FILM FILM CERAMIC	0.0047MF 330PF 3MF 0.0068MF 0.0047MF	10% 10% 5% 3%	100V 2KV 200V 2KV 2KV	I C263	8-759-054-12 8-759-504-46 8-759-701-79	IC PQO5RF1 IC NJM7812FA	
C516 C517 C518 C519 C1001	1-107-719-11 1-126-971-11 1-126-971-11 1-124-903-11 1-124-927-11	ELECT ELECT ELECT ELECT ELECT	220MF 470MF 470MF 1MF 4.7MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 50V	L1002	1-406-832-11 1-408-408-00 1-408-408-00	COIL, CHOKE 15MMH COIL, HORIZONTAL LINEARITY(HLC) INDUCTOR 8.2UH INDUCTOR 8.2UH	
C1005 C1006 C1007		ELECT ELECT CERAMIC ELECT CERAMIC	470MF 100MF 0.01MF 470MF 0.01MF	20% 20% 20%	16V 25V 50V 16V 50V	Q220	1-408-408-00 <tra 8-729-927-14</tra 	INDUCTOR 8.2UH INSISTOR> TRANSISTOR DTC323TS	
C1010	1-126-964-11 1-102-121-00	ELECT	10MF 0.0022MF	20% 10%	50V 50V	0221 0222 0223 0230	8-729-119-76 8-729-927-14 8-729-119-76 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC323TS TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE	
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td>Q231 Q232</td><td>8-729-119-78 8-729-119-78</td><td>TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE</td><td></td></con<>	NECTOR>				Q231 Q232	8-729-119-78 8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE	
CN222 CN223 CN224	1-573-298-21 1-573-298-21 *1-564-507-11 *1-564-507-11	CONNECTOR, E CONNECTOR, E PLUG, CONNEC PLUG, CONNEC	BOARD TO BOAI CTOR 4P CTOR 4P	RD 20P RD 20P		Q234 Q235 Q236	8-729-119-78 8-729-119-76 8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE	
CN511 CN527 CN528	*1-564-513-11 *1-580-689-11 *1-573-963-11 1-695-915-11 *1-580-689-11	PLUG, CONNECT PIN, CONNECT TAB (CONTACT PIN CONNECT PI	FOR (PC BOARI FOR (PC BOARI F)	)) 3P		Q501 Q502 Q503 Q504 Q505	8-729-119-76 8-729-119-76 8-729-119-78 8-729-119-78 8-729-119-80	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2688-LK	
CN571	*1-580-689-11 *1-580-689-11 *1-564-506-11	PIN, CONNECT PIN, CONNECT	FOR (PC BOARI	0) 4P		0506 0507	8-729-201-31 8-729-304-92	TRANSISTOR 2SA1013-0 TRANSISTOR 2SB649A-C TRANSISTOR 2SA1013-0	
CN1U20	*150450611 OIG>		olou or			Q508 Q509 Q510	8-729-201-31 8-729-010-98 8-729-021-48	TRANSISTOR 2SA1013-0 TRANSISTOR 2SA1492M-OPY TRANSISTOR 2SD2348 LBSONY	

The components identified by shading and mark  $\Delta$  are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \(\hat{\Lambda}\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PA	RT NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			RI	EMARK
Q511 8- Q1003 8-	729-119-76 729-119-76 729-119-78	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1175-1 SA1175-1 SC2785-1	HFE HFE HFF			R513 R514	1-215-900-11 1-249-421-11	METAL OXIDE Carbon	22K 5 2.2K 5	% 2W % 1/4	F F	
		ISTOR>			1/4W		R515 R516 R517 R518 R519	1-215-925-11 1-249-430-11 1-249-429-11 1-249-427-11 1-249-417-11	METAL OXIDE CARBON CARBON CARBON CARBON		% 3W % 1/4 % 1/4 % 1/4 % 1/4	W F	
R203 1- R204 1- R205 1-	249-429-11 249-429-11 249-429-11 249-431-11	CARBON CARBON CARBON CARBON	10K 15K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R520 R521 R522 R523	1-249-423-11 1-249-437-11 1-249-417-11 1-249-426-11	CARRON	3.3K 5 47K 5 1K 5 5.6K 5	5% 1/4 5% 1/4 5% 1/4 5% 1/4	W W F W F	
R209 1- R210 1- R211 1-	249-429-11 249-431-11 247-815-91 249-429-11 249-441-11	CARBON CARBON CARBON CARBON CARBON	10K 15K 220 10K 100K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R524 R525 R526 R528	1-215-925-11 1-216-373-11 1-216-478-11 1-216-477-11	METAL OXIDE Metal oxide		5% 2W 5% 3W 5% 3W	1 1 1	
R214 1-	-249-441-11 -247-815-91	CARBON	100K 220 100K	5%	1/4W 1/4W		R529 R530	1-216-477-11 1-216-477-11	METAL OXIDE METAL OXIDE		-	F F	
R216 1- R217 1-	-249-441-11 -249-441-11 -247-807-31	CARBON	100K 100	5% 5% 5% 5%	1/4W 1/4W 1/4W		R531 R532 R533 R534 R1001	1-215-437-00	METAL Metal	270 5 7.5K 1 8.2K 1 4.7K 1 22K	5% 3W 1% 1/4 1% 1/4 1% 1/4 5% 2W	W W	
R219 1- R220 1- R221 1-	-247-807-31 -249-417-11 -249-429-11 -249-437-11 -249-417-11		100 1K 10K 47K 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1006 R1007 R1008	1-215-900-11 1-249-434-11 1-249-425-11 1-247-807-31	CARBON CARBON CARBON		5% 1/4 5% 1/4 5% 1/4	W W	
R224 1-	-249-429-11 -249-429-11 -249-430-11	CARBON CARBON CARBON	10K 10K 12K	5% 5% 5% 5%	1/4W 1/4W 1/4W		R1010 R1014	1-249-411-11 1-249-436-11 1-247-807-31	CARBON		-	W	
R231 1- R233 1-	-249-429-11 -249-429-11	CARBON CARBON	10K 10K		1/4W 1/4W		R1018	1-247-807-31 1-249-417-11 1-215-432-00 1-249-441-11	METAL	1K 3K 100K	5% 1/4 1% 1/4	W W	
R235 1- R236 1- R237 1-	-249-441-11 -249-414-11 -249-432-11 -249-414-11 -249-431-11	CARBON CARBON CARBON CARBON CARBON	100K 560 18K 560 15K	5%% 5%% 5%%	1/4W 1/4W 1/4W 1/4W 1/4W		T501 /	<tr <br="">K 1-437-078-11</tr>	ANSFORMER> Transformer,	HOR.1 ZON	TAL DRIV		
R241 1	-249-430-11 -249-436-11 -249-432-11	CARBON CARBON CARBON	12K 39K 18K	5% 5% 5% 5%	1/4W 1/4W 1/4W			< <b>T</b> UI <b>T</b> >	VER>				
R243 1	-247-863-91 -247-863-91	CARBON CARBON	22K 22K	-	1/4W 1/4W		Ï	<b>/.</b> /8-598-254-0(			*****	*****	*****
R247 1 R249 1	-247-863-91 -249-430-11 -247-807-31 -249-417-11	CARBON CARBON CARBON CARBON	22K 12K 100 1K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W			*A-1306-493-A	M BOARD, COM		P-41T15)		
R251 1	-249-417-11 -249-437-11 -249-417-11	CARBON CARBON	47K 1K	5% 5%	1/4W 1/4W			*A-1306-498-A	M BOARD, COM		P-46S15/	53S15)	i.
R255 1 R257 1 R258 1	-249-429-11 -249-429-11 -249-429-11 -216-357-00	CARBON CARBON CARBON METAL OXIDE	10K 10K 10K 10K 4.7	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	F			SCREW (M3X10	), P, SW	(+)		
R260 1	-216-357-00 -216-357-00 -249-421-11	METAL OXIDE CARBON	4.7 2.2K		1W 1/4W	F	C001 C002	1-126-935-11 1-126-916-11	ELECT	470MF 1000MF	20% 20%		6V .3V
R502 1 R503 1	-249-429-11 -249-441-11 -249-429-11	CARBON CARBON CARBON	10K 100K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W		C004 C005 C006	1-163-001-11 1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP	220PF 220PF	10% 10% 10%	5( 5(	)V )V
R506 1 R507 1 R508 1	-215-437-00 -215-433-00 -249-407-11 -249-421-11 -249-423-11	METAL Carbon Carbon	4.7K 3.3K 150 2.2K 3.3K	1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C007 C009 C010 C011 C012	1-163-001-11 1-163-001-11 1-163-001-11 1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	10% 10% 10% 10% 10%	50 50 50	) V ) V ) V ) V ) V
R511 1	-249-417-11 -247-895-00 -215-925-11		1 K 470 K 22 K	5% 5% 5%	1/4W 1/4W 3W	F	C013 C014 C015	1-163-001-11 1-163-001-11 1-163-001-11	CERAMIC CHIP	220PF	10% 10% 10%	50	OV OV OV



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	1_162_001_11	CERAMIC CHIP 220		50V	C323	1-163-031-11	CERAMIC CHIP	0.01MR		50V
C016 C017 C018 C019 C020	1-163-001-11 1-163-001-11	CERAMIC CHIP 220 CERAMIC CHIP 220 CERAMIC CHIP 220 CERAMIC CHIP 220	OPF     10%       OPF     10%       OPF     10%       OPF     10%	50V 50V 50V 50V	C324 C327 C328 C329	1-128-551-11 1-163-139-00 1-163-117-00 1-163-001-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22MF 820PF 100PF 220PF	20% 5% 5% 10%	50V 50V 50V 50V
C021 C022 C023 C024 C025	1-163-001-11	CERAMIC CHIP 220 CERAMIC CHIP 220 CERAMIC CHIP 220 CERAMIC CHIP 220 CERAMIC CHIP 220	OPF 10% OPF 10% OPF 10%	50V 50V 50V 50V 50V	C338 C339 C340 C341 C342	1-124-927-11 1-124-464-11 1-163-133-00 1-124-902-00 1-124-902-00	ELECT CERAMIC CHIP ELECT	4.7MF 0.22MF 470PF 0.47MF 0.47MF	20% 20% 5% 20% 20%	50V 50V 50V 50V 50V
C026 C028 C029 C030 C031	1-163-001-11	CERAMIC CHIP 22 CERAMIC CHIP 22 CERAMIC CHIP 22 CERAMIC CHIP 22 CERAMIC CHIP 22	OPF 10% OPF 10% OPF 10%	50V 50V 50V 50V 50V	C344 C345 C346 C347	1-124-902-00 1-163-031-11 1-163-031-11 1-163-031-11 1-124-902-00		0.47MF 0.01MF 0.01MF	20% 20%	50V 50V 50V 50V 50V
C032 C033 C034 C035 C037	1-163-001-11 1-163-809-11 1-163-001-11 1-124-903-11 1-163-009-11	CERAMIC CHIP 22: CERAMIC CHIP 0. CERAMIC CHIP 22: ELECT 1M CERAMIC CHIP 0.	047MF 10% 20PF 10% MF 20%	50V 25V 50V 50V 50V	C348 C349 C350	1-163-097-00 1-163-109-00 1-126-964-11	CERAMIC CHIP CERAMIC CHIP ELECT	15PF 47PF 10MF	5% 5% 20%	50V 50V 50V (KP-41T15)
C038 C040 C041 C042	1-126-940-11 1-124-903-11 1-163-001-11 1-163-001-11	ELECT 33 ELECT 1M CERAMIC CHIP 22 CERAMIC CHIP 22	20PF 10%	16V 50V 50V 50V	C352 C353 C354	1-163-031-11 1-104-665-11 1-163-101-00	CERAMIC CHIP ELECT CERAMIC CHIP	100MF	20% 5%	50V 25V 50V (KP-41T15)
C046	1-163-125-00	CERAMIC CHIP 22	20PF 5%	50 <b>V</b>	C355	1-128-551-11	ELECT	22MF	20%	50V (KP-41T15)
C047 C048 C049	1-124-903-11 1-163-245-11 1-163-001-11	ELECT 1M CERAMIC CHIP 56 CERAMIC CHIP 22	4F 20% 5PF 5% 20PF 10%	50V 50V 50V	C357		ELECT		20%	25V (KP-41T15)
C050 C051	1-163-031-11 1-163-017-00	CERAMIC CHIP O. CERAMIC CHIP O.	.01MF	50V 50V	C358	1-163-097-00 1-163-125-00	CERAMIC CHIP		5%	50V (KP-41T15) 50V
C054 C055	1-163-001-11 1-163-037-11	CERAMIC CHIP 22 CERAMIC CHIP 0.	.022MF 10%	50V 25V				10MF	20%	(KP-41T15)
C056 C057 C058	1-163-001-11 1-163-159-00 1-104-896-11	CERAMIC CHIP 22 CERAMIC CHIP 12 CERAMIC CHIP 24	2PF 2%	50V 50V 50V	C360 C361	1-126-964-11 1-126-964-11		10MF		(KP-41T15)
C060	1-124-903-11		MF 20%	50V	C362		CERAMIC CHIP			(KP-41T15) 50V
C062 C063 C064 C065	1-163-038-00 1-126-964-11 1-126-964-11 1-163-038-00	CERAMIC CHIP O. ELECT 10	OMF 20% OMF 20%	25V 50V 50V 25V	C363	1-163-009-11	CERAMIC CHIP	0.001MF	10%	(KP-41T15) 50V (KP-41T15)
C066 C067 C068 C069 C070	1-163-135-00 1-137-399-11 1-137-367-11 1-137-375-11 1-104-664-11	FILM 0. FILM 0.	60PF 5% .1MF 5% .0033MF 5% .068MF 5% 7MF 20%	50V 50V 50V 50V 25V	C366 C368	1-163-101-00 1-163-117-00 1-163-093-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 100PF 10PF		50V (KP-41T15) 50V 50V 50V 25V
C071 C074 C075 C302 C303	1-124-464-11 1-126-940-11 1-163-031-11 1-124-902-00 1-124-902-00	ELECT 33 CERAMIC CHIP 0. ELECT 0.	.22MF 20% 30MF 20% .01MF .47MF 20% .47MF 20%	50V 16V 50V 50V 50V	C369 C370	1-163-809-11 1-104-665-11 1-104-665-11	ELECT	100MF	20% 20%	25V 25V
C304 C309 C310 C311 C312	1-124-927-11 1-163-019-00 1-163-017-00 1-124-925-11 1-163-017-00	CERAMIC CHIP O. CERAMIC CHIP O.	.0047MF 10%	50V 50V 50V 50V 50V	CJ002	1-216-295-00	CONDUCTOR, C	HIP		
€313 €314	1-104-664-11 1-163-031-11	ELECT 4' CERAMIC CHIP 0	7MF 20%	25V 50V		<c0< td=""><td>NNECTOR&gt;</td><td></td><td></td><td></td></c0<>	NNECTOR>			
C315 C316 C317	1-126-934-11 1-131-374-00 1-163-031-11	ELECT 2: TANTALUM 3: CERAMIC CHIP 0	20MF 20% 3MF 10% .01MF	16V 16V 50V	CN053	*1-564-512-11 *1-564-507-11 1-573-979-21 *1-564-512-11	PLUG, CONNEC CONNECTOR, E PLUG, CONNEC	CTOR 4P BOARD TO BO CTOR 9P	ARD 11	
C318 C319 C320 C321	1-124-925-11 1-124-903-11 1-124-903-11 1-163-017-00	ELECT 11	MF 20% MF 20% MF 20% 1.0047MF 10%	50V 50V 50V 50V	CN314 CN321	*1-564-509-11 1-573-301-21 1-573-301-21	PLUG, CONNEC	GOARD TO BO	ARD 201 ARD 20	(KP-41T15) P P



REF.NO.	. PART NO.	DESCRIPTION	REMARK	!REF.NO.	PART NO.	DESCRIPTIO	N	REMARK
							-	
CN351 CN355 CN356	*1-564-509-11 *1-565-930-11 *1-566-367-11	CONNECTOR (RECEPTACLE	C) 30P	L004 L005	1-410-476-11 1-410-470-11 1-410-470-11 1-408-413-00	INDUCTOR INDUCTOR	33UH 10UH 10UH	
CN357 CN358	*1-564-516-11 *1-564-508-11	PLUG, CONNECTOR 13P PLUG, CONNECTOR 5P	, or thousand	L302	1-408-413-00	INDUCTOR	22011	(KP-41T15)
	<dio< td=""><td>PLUG, CONNECTOR 6P CONNECTOR (RECEPTACLE CONNECTOR, HINGE (REC PLUG, CONNECTOR 13P PLUG, CONNECTOR 5P</td><td></td><td>L303 L304</td><td>1-408-416-00 1-410-468-11</td><td>INDUCTOR INDUCTOR</td><td>39UH 6.8UH</td><td>(KP-41T15)</td></dio<>	PLUG, CONNECTOR 6P CONNECTOR (RECEPTACLE CONNECTOR, HINGE (REC PLUG, CONNECTOR 13P PLUG, CONNECTOR 5P		L303 L304	1-408-416-00 1-410-468-11	INDUCTOR INDUCTOR	39UH 6.8UH	(KP-41T15)
D001	8-719-404-46	DIODE MA110		 	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td></tra<>	NSISTOR>		
D002 D003	8-719-404-46 8-719-404-46	DIODE MAIIO DIODE MAIIO		Q001	8-729-216-22	TRANSISTOR	2SA1162-G	
D004 D005	8-719-109-88	DIODE RD5.6ESB1		0002 0003	8-729-120-28 8-729-120-28 8-729-216-22	TRANSISTOR	2SC1623-L5L6	
D006 D007	8-719-109-88 8-719-109-88	DIODE RD5.6ESB1 DIODE RD5.6ESB1		Q005	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
D008 D009 D010	8-719-002-81 8-719-404-46 8-719-404-46	DIODE 17363 DIODE MA110 DIODE WALLO		0006 0007	8-729-120-28 8-729-216-22 8-729-216-22	TRANSISTOR TRANSISTOR TRANSISTOR	2SC1623-L5L6 2SA1162-G 2SA1162-G	
D011	8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE RD5.6ESBI DIODE RD5.6ESBI DIODE RD5.6ESBI DIODE RD5.6ESBI DIODE RD5.6ESBI DIODE RD5.6ESBI DIODE MAIIO DIODE RD5.6M-B2 DIODE RD9.1ESL DIODE RD9.1ESBI DIODE DAN202K DIODE MAIIO DIODE RD5.6ESBI		Q009 Q010	8-729-120-28 8-729-216-22	TRANSISTOR	2SC1623-L5L6	
D012 D013 D014	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAIIO DIODE MAIIO		Q011	8-729-216-22 8-729-120-28	TRANSISTOR	2SA1162-G	
D015	8-719-404-46	DIODE MAIIO		Q017 Q018	8-729-120-28 8-729-216-22	TRANSISTOR TRANSISTOR	2SC1623-L5L6 2SA1162-G	
D016 D017	8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO		Q019	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
D018 D019 D020	8-719-404-46 8-719-404-46 8-719-105-91	DIODE MAILO DIODE MAILO DIODE RD5.6M-B2		0301 0302 0303	8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR	2SA1162-G	
D305	8-719-121-24	DIODE RD9.1ESL		0304 0305	8-729-216-22 8-729-120-28	TRANSISTOR	2SA1162-G	
D307 D308 D309	8-719-121-24 8-719-110-22 8-719-109-84	DIODE RD11ESB2 DIODE RD5 1ESB1		0307 0308	8-729-120-28 8-729-216-22	TRANSISTOR	2SC1623-L5L6 2SA1162-G	
D310	8-719-914-44	DIODE DAPZOK		0309 0310	8-729-216-22 8-729-120-28	TRANSISTOR TRANSISTOR	2SA1162-G 2SC1623-L5L6	(KP-41T15)
D311 D312 D313	8-719-914-43 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO		Q311	8-729-120-28 8-729-120-28		2SC1623-L5L6 2SC1623-L5L6	
D314 D315	8-719-404-46 8-719-109-88	DIODE MAIIO DIODE RD5.6ESB1		0313 0314	8-729-120-28 8-729-120-28	TRANSISTOR TRANSISTOR	2SC1623-L5L6 2SC1623-L5L6	(KP-41T15)
D316 D317	8-719-404-46 8-719-110-22	DIODE MAI10 DIODE RD11ESB2		Q315 Q316	8-729-120-28 8-729-120-28	TRANSISTOR TRANSISTOR	2SC1623-L5L6 2SC1623-L5L6	(KP-41T15) (KP-41T15)
D320 D321	0 117 404 40	DIODE MAIIO DIODE MAIIO	(KP-41T15) (KP-41T15) (KP-41T15)	1 4310	0-149-140-40	TRANSISTOR TRANSISTOR	2SA1162-G 2SC1623-L5L6	(KP-41T15) (KP-41T15)
D322 D323	8-719-404-46 8-719-404-46		(KP-41T15) (KP-41T15)	Q319 Q320 Q321	8-729-120-28 8-729-120-28	TRANSISTUR	2SCI623-L5L6	(KP-41T15) (KP-41T15)
D324 D325	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	(KP-41T15) (KP-41T15)	Q322	8-729-120-28			
D326 D327	8-719-110-08 8-719-404-46	DIODE RD8.2ESB2 DIODE MA110		! !	<b>∠</b> 0.00	ነ ር ሞ በ в ኣ		
D328	8-719-911-19	DIODE 1SS119-25		R001	1-216-049-00	SISTOR> Metal Glazi	3 1K 5%	1/10W
	<1C>			R002	1-216-049-00 1-216-033-00 1-216-033-00	METAL GLAZI METAL GLAZI	3 1K 5% 3 220 5%	1/10W 1/10W
I C001 I C002		IC UPC78N05H IC CXP85332A-033S		R004 R005	1-216-033-00 1-216-033-00	METAL GLAZI Metal Glazi	3 220 5% 3 220 5%	1/10W 1/10W
I CO03 I CO04	8-759-284-16 8-759-328-12	IC ST24C04CB1 IC Z8622812PSC		R006 R007	1-216-033-00 1-216-033-00	METAL GLAZI METAL GLAZI	3 220 5%	1/10W 1/10W
I C005		IC ST24C01CB1		R008 R009 R010	1-216-033-00 1-216-033-00 1-216-073-00	METAL GLAZI METAL GLAZI METAL GLAZI	3 220 5% 3 220 5%	1/10W 1/10W 1/10W
1 C301		IC CXA1477AS		R011	1-216-033-00			1/10W
				R012 R013	1-216-033-00 1-216-073-00	METAL GLAZI METAL GLAZI	E 220 5% E 10K 5%	1/10W 1/10W
L003	<01 1-410-470-11			R014 R015	1-216-073-00 1-216-033-00	METAL GLAZI METAL GLAZI	E 10K 5% E 220 5%	1/10W 1/10W



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARI	K -
R018 R019 R020 R021 R022	1-216-049-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 220 220 220 100 K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R086 R087 R088 R089 R090	1-216-097-00 1-216-073-00 1-216-089-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 10K 47K 4.7K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R023 R024 R025 R026 R027	1-216-073-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 M 4.7K 10K 10K 47K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R101 R102 R103 R104 R106	1-216-065-00 1-216-089-00 1-216-045-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 47K 680 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R028 R029 R031 R032 R033	1-216-065-00 1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 4.7K 4.7K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R107 R108 R109 R110 R111	1-216-033-00 1-216-033-00 1-216-033-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 220 1 K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R034 R035 R036 R037 R038	1-216-073-00 1-216-033-00 1-216-025-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 220 100 220 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R112 R113 R114 R115 R116 R117	1-216-089-00 1-216-089-00 1-216-065-00 1-216-065-00 1-216-047-00	METAL GLAZE	47K 47K 4.7K 4.7K 4.7K 820	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
R040 R041 R042 R043	1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 220 10K	5%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W		R118 R119 R120 R300 R301	1-216-047-00 1-216-047-00 1-216-047-00 1-216-033-00 1-216-025-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	820 820 220 100 2.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
RO45 RO46 RO47 RO48	1-216-033-00 1-216-033-00 1-216-033-00 1-216-073-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 10K 220	5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W		R302 R303 R304 R305 R306	1-216-049-00 1-216-049-00 1-216-049-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
RÓSÓ ROS1 ROS2 ROS4 ROSS	1-216-049-00 1-216-049-00 1-216-065-00 1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 4.7K 10K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W		R307 R308 R309 R310 R311	1-216-057-00 1-216-073-00 1-216-025-00 1-216-081-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 10K 100 22K 100	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R056 R057 R058 R059	1-216-049-00 1-216-065-00 1-216-073-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE CONDUCTOR, CH METAL GLAZE	1K 4.7K 10K IIP 4.7K	5%	1/10W 1/10W 1/10W		R312 R313 R314 R315 R317	1-216-033-00 1-216-081-00 1-216-033-00 1-216-067-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 22K 220 5.6K 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R062 R063 R064 R065	1-216-085-00 1-216-041-00 1-216-065-00 1-216-097-00 1-216-049-00	METAL GLAZE	33K 470 4.7K 100K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R318 R319 R320 R321 R323	1-216-071-00 1-216-190-00 1-216-065-00 1-216-190-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CONDUCTOR, C	8.2K 470 4.7K 470		1/10W 1/8W 1/10W 1/8W	
R067 R068 R069 R071 R072 R073	1-216-049-00 1-216-049-00 1-216-073-00 1-216-073-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 10K 10K 470	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R324 R325 R326 R327 R328	1-216-025-00 1-216-043-91 1-216-077-00 1-216-033-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 560 15K 220 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R074 R075 R076	1-216-049-00 1-216-049-00 1-216-069-00 1-216-089-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 6.8K 47K	5%	1/10W 1/10W 1/10W 1/10W		R329 R330 R331 R332 R333	1-216-085-00 1-216-039-00 1-216-059-00 1-216-049-00 1-208-810-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	33K 390 2.7K 1K 15K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
R078 R079 R080 R081	1-216-097-00 1-216-081-00 1-216-023-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 22K 82 470 68K 4.7K	555555555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W		R335 R336 R337 R338 R339	1-216-033-00 1-216-033-00 1-216-049-00 1-216-049-00 1-216-655-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	220 220 1 K 1 K 1 . 5 K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
R083 R084 R085	1-216-065-00 1-216-073-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 10K 47K	5% 5% 5%	1/10W 1/10W 1/10W		R340 R341	1-216-033-00 1-216-033-00		220 220	5% 5%	1/10W 1/10W	

The components identified by shading and mark  $\Lambda$  are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \(\frac{\Lambda}{\text{sont}}\) critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK	
R342	1-216-033-00	METAL GLAZE	220	5% 5%	1/10W						(K	P-41T15)	
R343 R344 R345	1-216-077-00 1-216-073-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 10K 100	5% 5% 5% 5%	1/10W 1/10W 1/10W	R383	1-216-043-91	METAL GLAZE	560	5%	1/10W (K	P-41T15)	
R346	1-216-037-00	METAL GLAZE	330	5%	1/10W	R384	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W		
R347 R348	1-216-041-00 1-216-049-00	METAL GLAZE METAL GLAZE	470 1K	5% 5%	1/10W 1/10W	R385	1-216-085-00	METAL GLAZE	33K	5%	1/10W		
R349 R350	1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 220	5% 5%	(KP-41T15) 1/10W 1/10W	R386	1-216-121-00	METAL GLAZE	1 M	5%	1/10W	P-41T15) P-41T15)	
R351	1-216-033-00	METAL GLAZE	220	5%	1/10W	R387	1-216-049-00	METAL GLAZE	1 K	5%	1/10W		
R352	1-216-057-00	METAL GLAZE	2.2K		1/10W (KP-41T15)	R388	1-216-295-00	CONDUCTOR, CH	HIP		/v	D41ሞ1ፎ\	
R353	1-216-069-00	METAL GLAZE	6.8K	26	1/10W (KP-41T15)	R389	1-216-033-00	METAL GLAZE	220	5%	1/10W	P-41T15) P-41T15)	
R354 R355	1-216-053-00 1-216-071-00	METAL GLAZE METAL GLAZE	1.5K 8.2K	5% 5%	1/10W 1/10W	R390	1-216-033-00	METAL GLAZE	220	5%	1/10W		
R356	1-216-031-00	METAL GLAZE	180	5%	1/10W (KP-41T15)	R391 R392	1-216-061-00 1-216-059-00		3.3K 2.7K		1/10W 1/10W		
R357	1-216-031-00	METAL GLAZE	180	5%	1/10W		4 CP U	OM ALL				÷	
R358 R359	1-216-049-00 1-216-037-00	METAL GLAZE METAL GLAZE	1K 330	5% 5%	(KP-41T15) 1/10W 1/10W	X001	1-579-917-11	STAL>	/CT A1				
R360	1-216-035-00	METAL GLAZE	270	5% 5%	(KP-41T15) 1/10W	X301 X302	1-577-611-11 1-567-505-11	OSCILALTOR, O	CERAMIC				
R361	1-216-049-00	METAL GLAZE	1 K	5% 5%	1/10W		*****	·			*****	******	
R362 R363	1-216-035-00	METAL GLAZE	270 1K	5% 5%	1/10W (KP-41T15)		*A-1316-212-A	G BOARD, COM					
n303	1-216-049-00	MEIAL GLAZE	114	<b>∂</b> 6	1/10W (KP-41T15)		<b></b> 44−047−936−01						
R364	1-216-025-00	METAL GLAZE	100	5%	1/10W (KP-41T15)		4-382-854-11			W (+)			
R366	1-216-053-00	METAL GLAZE	1.5K		1/10W (KP-41T15)		<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td></td></cap<>	ACITOR>					
R367	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C601 /	M-136-311-51	FILM	0.4716		20%	1251	
R368	1-216-025-00	METAL GLAZE	100	5%	(KP-41T15) 1/10W (KP-41T15)	C603 A	& 1-164-486-51 & 1-164-486-51 & 1-125-692-11	CERANIC	0.0022 0.0022 820MF	#	201 201 201	400V 400V 200V	
R369	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W (KP-41T15)	C605 Z	K 1-125-692-11	ELECT (BLUCK)	820HF		20%	200V	
R370		METAL GLAZE	220	5% 5%	1/10W	C608 C609	1-164-645-11 1-164-645-11	CERAMIC	1000PF 1000PF	ì	10% 10%	500V 500V	
R371	1-216-049-00		1 K		1/10W (KP-41T15)		1-136-173-00 1-136-171-00	FILM	0.47MF 0.33MF	•	5% 5%	50V 50V	
R372	1-216-051-00	METAL GLAZE	1.2K	2%	1/10W (KP-41T15)	C612	1-136-173-00 1-136-171-00	FILM	0.47MF		5% 5%	50V 50V	
R373	1-216-035-00	METAL GLAZE	270	5%	1/10W (KP-41T15)	C614 C615	1-164-735-11 1-129-720-00	CAP, CERAMIC FILM		ì		630V	
R374		METAL GLAZE	33K	5%	1/10W (KP-41T15)	C616 Z C618 Z	L 1-136-311-51 L 1-161-740-00	FILM CERANIC	0,47H 470PF		5% 20% 10%	125V 400V	
R375	1-216-075-00	METAL: GLAZE	12K	5%.	1/10W	C619 /	<b>∆</b> 1-161-740-00	CERANLC	470PF		10%	400V	di Mariana
R376						C651	1-128-548-11	ELECT	- A. AUU W. H	ĺ	7117	25V	
טזכא	1-216-093-00	METAL GLAZE	68K	5%	(KP-41T15) 1/10W (VP-41T15)	C652	1-128-548-11	ELECT	4700MF	ì	20% 20%	25V	
R377		METAL GLAZE METAL GLAZE	68K 560	5% 5%	1/10W (KP-41T15) 1/10W	C652 C653 C656	1-128-548-11 1-162-318-11 1-128-548-11		4700MF 0.001M 4700MF	; (F	20% 10% 20%	25V 500V 25V	
	1-216-043-91			5%	1/10W (KP-41T15) 1/10W (KP-41T15)	C653 C656 C657 C658	1-128-548-11 1-162-318-11 1-128-548-11 1-126-926-11 1-126-768-11	BLECT CERAMIC ELECT ELECT ELECT	4700MF 0.001M 4700MF 1000MF 2200MF	i IF i	20% 10% 20% 20%	500V 25V 10V 16V	
R377	1-216-043-91 1-216-059-00	METAL GLAZE	560	5%	1/10W (KP-41T15) 1/10W (KP-41T15) 1/10W (KP-41T15) 1/10W	C653 C656 C657 C658 C659 C660	1-128-548-11 1-162-318-11 1-128-548-11 1-126-926-11 1-126-768-11 1-126-944-11 1-164-644-11	ELECT CERAMIC ELECT ELECT ELECT CERAMIC	4700MF 0.001M 4700MF 1000MF 2200MF 3300MF 330PF	i IF i	20% 10% 20% 20%	500V 25V 10V 16V 25V 500V	
R377 R378	1-216-043-91 1-216-059-00 1-216-083-00	METAL GLAZE	560 2.7K	5% 5% 5%	1/10W (KP-41T15) 1/10W (KP-41T15) 1/10W (KP-41T15)	C653 C656 C657 C658 C659 C660 C661	1-128-548-11 1-162-318-11 1-128-548-11 1-126-926-11 1-126-768-11 1-126-944-11 1-164-644-11 1-123-024-21	ELECT CERAMIC ELECT ELECT ELECT ELECT CERAMIC ELECT	4700MF 0.001M 4700MF 1000MF 2200MF 3300MF 330PF 33MF	i IF i	20% 10% 20% 20% 20% 20% 10%	500V 25V 10V 16V 25V 500V 160V	
R377 R378 R379 R380	1-216-043-91 1-216-059-00 1-216-083-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 2.7K 27K 100K	5% 5% 5%	1/10W (KP-41T15) 1/10W (KP-41T15) 1/10W (KP-41T15) 1/10W (KP-41T15) 1/10W	C653 C656 C657 C658 C659 C660 C661 C662 C663	1-128-548-11 1-162-318-11 1-128-548-11 1-126-926-11 1-126-768-11 1-126-944-11 1-123-024-21 1-107-636-11 1-126-948-11	BLECT CERAMIC BLECT BLECT BLECT CERAMIC BLECT BLECT BLECT BLECT BLECT	4700MF 0.001M 4700MF 1000MF 2200MF 3300MF 330PF 33MF 10MF 100MF	i IF i	20% 10% 20% 20% 20% 20% 10%	500V 25V 10V 16V 25V 500V 160V 160V	
R377 R378 R379	1-216-043-91 1-216-059-00 1-216-083-00 1-216-097-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 2.7K 27K	5% 5% 5%	1/10W (KP-41T15) 1/10W (KP-41T15) 1/10W (KP-41T15) 1/10W (KP-41T15) 1/10W	C653 C656 C657 C658 C659 C660 C661	1-128-548-11 1-162-318-11 1-128-548-11 1-126-926-11 1-126-768-11 1-126-944-11 1-164-644-11 1-123-024-21 1-107-636-11	ELECT CERAMIC ELECT ELECT ELECT ELECT CERAMIC ELECT ELECT ELECT	4700MF 0.001M 4700MF 1000MF 2200MF 3300MF 330PF 33MF	i IF i	20% 10% 20% 20% 20% 20% 10%	500V 25V 10V 16V 25V 500V 160V	



Les composants identifies par une trame et une marque Å sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Color=							<b>.</b> 7
1-162-318-11   CERAMIC   O.01MF   IOV   SOUN   D600   8-719-200-82   D100E   LISS2	REMARK REF.NO. PART NO. DESCRIPTION REMARK	REMARK		PTION	DESCRIPTIO	PART NO.	REF.NO.
1-104-664-11   ELECT	IF 10% 500V   D680 8-719-200-82 DIODE 11ES2	500V	10%	0.001MF	CERAMIC	1-162-318-11	C669
1-104-664-11   ELECT	20% 25V   D681 8-719-200-82 DIODE 11ES2 20% 25V   D682 8-719-200-82 DIODE 11ES2	25V	20%	47MF	ELECT	1-104-664-11	C671
Corr   -1-04-664-11   ELECT   47MF   20X   25V	20% 25V   D685 8-719-911-19 D10DE 1SS119-25 20% 25V   D686 8-719-911-19 D10DE 1SS119-25	25V	20%	47MF	ELECT	1-104-664-11	C674
Comparison   Com	20% 25V   D687 8-719-109-51 DIODE RD2.OESB2 20% 160V   D688 8-719-911-19 DIODE ISS119-25   D689 8-719-911-19 DIODE ISS119-25	25V 160V	20% 20%	47MF LOCK) 1000MF	ELECT ELECT (BLOCK	1-104-664-11 1-125-473-11	C676 C677
C683   1-107-635-11   ELECT   2.20NF   20Z   16V	10% 500V 1 D691 8-719-911-19 DIODE 188119-25	500V 50V	10%	330PF 1 <b>M</b> F	CERAMIC Elect	1-164-644-11 1-124-903-11	C679 C680
CONNECTOR>   FG01 A 1-776-193-11 PUSE (6.74/22V)   1-533-223-11 CLIP, FUSE; F601   1-695-915-11 TAB (CONTACT)   (N615 1-695-915-11 TAB (CONTACT)   (N616 1-564-507-11 PLUG, CONNECTOR 4P   (N617 1-568-80-43)-11 PLUG, CONNECTOR 4P   FB652 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH   FB652 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH   FB652 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH   FB653 1-564-507-11 PLUG, CONNECTOR 10P   (N626 1-564-506-11 PLUG, CONNECTOR 3P   (N626 1-564-506-11 PLUG, CONNECTOR 3P   (N627 1-564-507-11 PLUG, CONNECTOR 3P   (N627 1-564-507-11 PLUG, CONNECTOR 3P   (N627 1-564-507-11 PLUG, CONNECTOR 3P   (N627 1-79-364-10 PLUG, CONNECTOR 4P   (N627 1-79-34-10 PLUG, CON	20% 160V		20%	4.7MF	ELECT	1-124-903-11 1-107-635-11	
CONNECTORS  CM660 1-695-915-11 TAB (CONTACT) CM616 1-695-915-11 TAB (CONTACT) CM616 1-695-915-11 TAB (CONTACT) CM616 1-564-507-11 PLUG, CONNECTOR 4P  CM617 1-580-843-11 PLUG, CONNECTOR 4P  CM624 1-564-507-11 PLUG, CONNECTOR 4P  CM624 1-564-507-11 PLUG, CONNECTOR 4P  CM625 1-564-507-11 PLUG, CONNECTOR 3P  CM633 1-564-507-11 PLUG, CONNECTOR 3P  CM633 1-564-507-11 PLUG, CONNECTOR 4P  CM631 1-573-986-11 PIN, CONNECTOR 4P  CM631 1-544-507-11 PLUG, CONNECTOR 4P  CM631 1-544-507-11 PLUG, CONNECTOR 4P  CM631 1-544-507-11 PLUG, CONNECTOR 4P  CM632 1-564-506-11 PIN, CONNECTOR 4P  CM631 1-544-507-11 PLUG, CONNECTOR 4P  CM632 1-564-506-11 PIN, CONNECTOR 4P  CM633 1-564-506-11 PIN, CONNECTOR 4P  CM631 1-544-507-11 PLUG, CONNECTOR 4P  CM632 1-645-507-11 PLUG, CONNECTOR 4P  CM633 1-564-506-11 PIN, CONNECTOR 4P  CM631 1-544-509-11 PIN, CONNECTOR 4P  CM632 1-645-507-11 PLUG, CONNECTOR 4P  CM633 1-564-507-11 PLUG, CONNECTOR 4P  CM631 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH  CM625 1-403-588-11 CLL, CHOKE 22UH  CM651 8-719-911-19 DIODE ISSI19-25  CM650 8-719-911-19 DIODE ISSI19-25  CM650 8-719-911-19 DIODE ISSI19-25  CM650 8-719-911-19 DIODE ISSI19-25  CM650 8-719-911-19 DIODE ISSI19-25  CM651 8-719-022-97 DIODE S254MF  CM651 8-719-022-97 DIODE S254MF  CM652 8-719-022-97 DIODE S254MF  CM661 8-719-052-86 DIODE D2L40-7A  CM662 8-719-052-86 DIODE D1NL40-7R2  CM663 8-719-011-9 DIODE ISSI19-25  CM664 8-719-011-9 DIODE ISSI19-25  CM666 8-719-052-86 DIODE D2L40-7A  CM666 8-719-052-86 DIODE D2L40-7A  CM667 8-719-012-9 DIODE S258MF  CM668 8-719-052-86 DIODE D2L40-7A  CM668 8-719-052-86 DIODE D2L40-7A  CM668 8-719-052-86 DIODE D2L40-7A  CM669 8-719-052-86 DIODE D1NL40-7R2  CM668 8-719-052-86 DIODE D1NL40-7R	20% 16V <fuse></fuse>	16V	20%	220MF	ELECT	1-126-934-11	C690
CM616 = 1-695-915-11 TAB (CONTACT) CM616 = 1-664-507-11 PLUG, CONNECTOR 4P CM617 * = 1-580-843-11 PLUG, CONNECTOR 4P CM627 * = 1-564-506-11 PLUG, CONNECTOR 4P CM628 * = 1-564-506-11 PLUG, CONNECTOR 4P CM628 * = 1-564-506-11 PLUG, CONNECTOR 4P CM628 * = 1-564-506-11 PLUG, CONNECTOR 4P CM681 * 1-573-986-11 PLUG, CONNECTOR 4P CM681 * 1-79-912-19 DLOBE 1SS119-25 CM606					NECTOR>	<c01< th=""><th></th></c01<>	
CM617 *1-580-843-11 PIN, CONNECTOR (POWER) CM624 *1-564-507-11 PLUG, CONNECTOR 10P CM626 *1-564-507-11 PLUG, CONNECTOR 3P CM653 *1-564-506-11 PLUG, CONNECTOR 3P CM653 *1-564-506-11 PLUG, CONNECTOR 3P CM681 *1-573-986-11 PIN, CONNECTOR (PC BOARD) 5P  CDIODE>  COILD  C	<ferrite bead=""></ferrite>			NTACT)	TAB (CONTAC	1-695-915-11	CN615
CROS *1-564-506-11 PLUG, CONNECTOR 3P CROS *1-564-507-11 PLUG, CONNECTOR 3P CROS *1-564-507-11 PLUG, CONNECTOR (PC BOARD) 5P CROS *1-564-507-11 PLUG, CONNECTOR (PC BOARD) 5P CROS *1-564-507-11 PLUG, CONNECTOR (PC BOARD) 5P CROS *1-573-986-11 CL, CHOKE 22UH CROS *1-573-911-19 DLOBE ISSI19-25 CROS *1-403-588-11 CL, CHOKE 22UH CROS *1-4				INNECTOR (POWER)	PIN, CONNEC	*1-580-843-11	CN617
Color   Colo				CONNECTOR 3P	PLUG, CONNE	*1-564-506-11	CN626
No.			IRD) 5P				
Decoration   Dec	C011 S				ODE>	<010	
Decide							
D608   8-719-911-19   D10DE   ISS119-25   L656   1-412-519-11   INDUCTOR   3.3UH	L652 1-403-588-11 CIL, CHOKE 22UH L653 1-412-519-11 INDUCTOR 3.3UH L654 1-403-588-11 CIL, CHOKE 22UH			SS119-25 SS119-25	DIODE 18811 DIODE 18811	8-719-911-19 8-719-911-19	D605 D606
D651   8-719-911-19   D10DE 1SS119-25   D656   8-719-052-91   D10DE D10SBS4F   CTRANSISTOR	L656 1-412-519-11 INDUCTOR 3.3UH			ISS119-25	DIODE 1881	8-719-911-19	D609
D656   8-719-022-97   D10DE   S2S4MF   D657   8-719-022-97   D10DE   S2S4MF   D658   8-719-022-97   D10DE   S2S4MF   D659   8-719-022-97   D10DE   S2S4MF   D659   8-719-022-97   D10DE   S2S4MF   D659   8-719-052-86   D10DE   S2S4MF   D660   8-719-052-86   D10DE   D10D	L658 1-403-588-11 CIL, CHOKE 22UH			ISS119-25	DIODE 1881	8-719-911-19	D611
D657 8-719-022-97 DIODE S2S4MF D658 8-719-022-97 DIODE S2S4MF D659 8-719-022-97 DIODE S2S4MF D660 8-719-052-86 DIODE D2L40-TA D661 8-719-052-86 DIODE D2L40-TA D662 8-719-052-86 DIODE D1NL40-TR2 D663 8-719-052-31 DIODE D1NL40-TR2 D664 8-719-510-26 DIODE D1NL40-TR2 D665 8-719-110-19 DIODE D1NL20 D666 8-719-110-58 DIODE D1NL20 D667 8-719-110-41 DIODE RD11ESB2 D669 8-719-110-41 DIODE RD11ESB2 D670 8-719-110-41 DIODE RD15ESB2 D671 8-719-110-41 DIODE RD15ESB2 D672 8-719-110-41 DIODE RD15ESB2 D673 8-719-110-49 DIODE RD18ESB2 D674 8-719-110-49 DIODE RD18ESB2 D674 8-719-110-49 DIODE RD18ESB2 D674 8-719-110-19 DIODE RD18ESB2 D674 8-719-110-19 DIODE RD18ESB2 D677 8-719-110-19 DIODE RD18ESB2 D678 8-719-110-19 DIODE RD18ESB2 D679 8-719-110-19 DIODE RD18ESB2 D670 8-719-110-19 DIODE RD18ESB2 D671 8-719-110-19 DIODE RD18ESB2 D672 8-719-110-19 DIODE RD18ESB2 D673 8-719-110-19 DIODE RD18ESB2 D674 8-719-110-19 DIODE RD18ESB2 D675 R-719-110-19 DIODE RD18ESB2 D676 R-719-110-19 DIODE RD18ESB2 D677 R-719-110-19 DIODE RD18ESB2 D678 R-719-110-19 DIODE RD18ESB2 D679 R-719-110-19 DIODE RD18ESB2 D670 R-719-110-19 DIODE RD18ESB2 D671 R-719-110-19 DIODE RD18ESB2 D672 R-719-110-19 DIODE RD18ESB2 D673 R-719-110-19 DIODE RD18ESB2 D674 R-719-110-19 DIODE RD18ESB2 D675 R-719-110-19 DIODE RD18ESB2 D676 R-719-110-19 DIODE RD18ESB2 D677 R-719-110-19 DIODE RD18ESB2 D678 R-719-110-19 DIODE RD18ESB2 D679 R-719-110-19 DIODE RD18ESB2 D719 RD18ESB2 D719 RANSISTOR 2SC4458-	<transistor></transistor>						
D660	Q602			52S4MF 52S4MF	DIODE S2S41 DIODE S2S41	8-719-022-97 8-719-022-97	D657 D658
D663 8-719-052-31 DIODE D1NL40-TR2 D664 8-719-510-26 DIODE D1NL20 Q655 8-729-230-45 TRANSISTOR 2SC2458-YGR D665 8-719-911-19 DIODE ISS119-25 Q656 8-729-119-76 TRANSISTOR 2SC2785-HFE D666 8-719-110-58 DIODE RD122SB3 D667 8-719-110-22 DIODE RD11ESB2 Q658 8-729-119-76 TRANSISTOR 2SA1175-HFE D669 8-719-911-19 DIODE ISS119-25 Q660 8-729-119-76 TRANSISTOR 2SA1175-HFE D670 8-719-110-41 DIODE RD15ESB2 Q661 8-729-119-76 TRANSISTOR 2SA1175-HFE D671 8-719-911-19 DIODE ISS119-25 Q662 8-729-119-76 TRANSISTOR 2SA1175-HFE D672 8-719-109-54 DIODE RD2.2ESB2 D673 8-719-110-49 DIODE RD2.2ESB2 D674 8-719-911-19 DIODE RD18ESB2 D674 8-719-911-19 DIODE RD18ESB2 D674 8-719-911-19 DIODE RD18ESB2 D675 RANSISTOR 2SA1175-HFE RESISTOR>	Q653 8-729-230-45 TRANSISTOR 2SC2458-YGR			D2L40-TA	DIODE D2L4	8-719-052-86	D661
D665 8-719-911-19 DIODE ISS119-25 Q658 8-729-119-76 TRANSISTOR 2SC2785-HFE Q658 8-729-119-76 TRANSISTOR 2SA1175-HFE Q659 8-719-110-22 DIODE RD11ESB2 Q660 8-719-911-19 DIODE ISS119-25 Q660 8-729-119-76 TRANSISTOR 2SA1175-HFE Q661 8-729-119-76 TRANSISTOR 2SA1175-HFE Q662 8-729-119-76 TRANSISTOR 2SA1175-HFE Q662 8-729-119-76 TRANSISTOR 2SA1175-HFE Q662 8-729-119-76 TRANSISTOR 2SA1175-HFE Q663 8-729-119-76 TRANSISTOR 2SA1175-HFE Q663 8-729-119-76 TRANSISTOR 2SA1175-HFE Q663 8-729-119-76 TRANSISTOR 2SA1175-HFE Q663 8-729-119-76 TRANSISTOR 2SA1175-HFE Q664 8-729-119-76 TRANSISTOR 2SA1175-HFE Q665 8-729-119-76 TRANSISTOR 2SA1175-HFE Q665 8-729-119-76 TRANSISTOR 2SA1175-HFE Q666 8-729-119-76 TRANSISTOR 2SA1175-HFE Q667 8-719-109-54 DIODE RD2.2ESB2 Q668 8-729-119-76 TRANSISTOR 2SA1175-HFE Q668 8-729-119-76 TRANSISTOR 2SA1175-HFE Q669 8-729-119-76 TRANSIS	┆ Q655 8-729-230-45 TRANSISTOR 2SC2458-YGR			D1NL40-TR2	DIODE DINL	8-719-052-31	D663
D667 8-719-110-22 D10DE RD11ESB2 Q659 8-729-119-76 TRANSISTOR 2SA1175-HFE D669 8-719-110-41 D10DE ISS119-25 Q660 8-729-119-76 TRANSISTOR 2SA1175-HFE Q661 8-729-119-76 TRANSISTOR 2SA1175-HFE Q662 8-729-119-76 TRANSISTOR 2SA1175-HFE Q662 8-729-119-76 TRANSISTOR 2SA1175-HFE Q663 8-729-	Q657 8-729-119-78 TRANSISTOR 2SC2785-HFE			1SS119-25	DIODE 1881	8-719-911-19	D665
D671 8-719-911-19 DIODE ISS119-25 Q663 8-729-119-76 TRANSISTOR 2SA1175-HFE D672 8-719-109-54 DIODE RD2.2ESB2 D673 8-719-110-49 DIODE RD18ESB2 D674 8-719-911-19 DIODE ISS119-25 < RESISTOR>	Q660			RD11ESB2 1SS119-25	DIODE RD11 DIODE 1SS1	8-719-110-22 8-719-911-19	D667 D669
D674 8-719-911-19 DIODE 1SS119-25   <resistor></resistor>	Q662 8-729-119-76 TRANSISTOR 2SA1175-HFE Q663 8-729-119-76 TRANSISTOR 2SA1175-HFE			RD2.2ESB2	DIODE RD2.	8-719-109-54	D672
				1SS119-25	DIODE 1881		D673 D674 D675
D676 8-719-911-19 DIODE ISS119-25 R603 & 1-205-997-11 WIREWOUND 2.2 5% 10 D677 8-719-911-19 DIODE ISS119-25 R604 & 1-247-891-91 CARBON 330K 5% 17	R603 A 1-205-997-11 WIREWOUND 2.2 5% 100 R604 A 1-247-891-91 CARBON 330K 5% 1/4W			1SS119-25	DIODE 1881	8-719-911-19	D677

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \(\frac{\Lambda}{\Lambda}\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION	N -		REMARK
R606 A R607 R608 R609 R610	1-202-933-64 1-247-891-00 1-247-891-00 1-216-369-00 1-247-891-00	CARBON CARBON METAL OXIDE CARBON	0.1 330K 330K 1 330K	10% 5% 5% 5% 5%	1/4W 1/4W	F	7601 A.	<tran 1-427-850 11 1-427-863-11</tran 	ISFORMER> TRANSFORMER	LING FILTE CONVENTER	R (P17)	
R611 R612 R613 R614 R615	1-247-891-00 1-216-369-00 1-247-791-91 1-247-791-91 1-247-791-91	CARBON METAL OXIDE CARBON CARBON CARBON	330K 1 22 22 22	5% 5% 5% 5%	1/4W 2W 1/4W 1/4W 1/4W	F	T603 本 T604 本 T605 本	[-427-864-1] 1-427-864-13 1-427-850-13	TRANSFORMER TRANSFORMER TRANSFORMER	POWER CONVERTER LINE FILTE	(PRT) Ř	*****
R616 R631 R632 R633 R634	1-247-791-91 1-247-863-91 1-247-807-31 1-247-807-31 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	22 22K 100 100 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		*	-A-1331-408-A <cap< td=""><td>CR BOARD, C ************************************</td><td>OMPLETE ******</td><td></td><td></td></cap<>	CR BOARD, C ************************************	OMPLETE ******		
R635 R636 R651 R653 R654	1-249-425-11 1-249-413-11 1-216-370-11 1-249-418-11 1-215-473-00	CARBON CARBON METAL OXIDE CARBON METAL	4.7K 470 1.2 1.2K 150K	5% 5% 5% 1%	1/4W 1/4W 2W 1/4W 1/4W	ቫ ቫ	C701 C702 C703 C704 C705	1-104-664-11 1-107-662-11 1-161-754-00 1-126-768-11 1-102-050-00	ELECT	47MF 22MF 0.001MF 2200MF 0.01MF	20% 20% 10% 20% 99%	25V 250V 2KV 16V 500V
R655 R656 R657 R658 R659	1-249-441-11 1-216-369-00 1-249-429-11 1-247-883-00 1-249-417-11	CARBON METAL OXIDE CARBON CARBON CARBON	100K 1 10K 150K 1K	5% 5% 5% 5%	1/4W 2W 1/4W 1/4W 1/4W	F	C706 C707 C708 C709 C710	1-102-965-00 1-102-129-00 1-104-664-11 1-107-651-11 1-102-157-00	CERAMIC	39PF 0.01MF 47MF 4.7MF 560PF	5% 10% 20% 20% 10%	50V 50V 25V 250V 500V
R660 R661	1~249-417-11 1-215-471-00 L1-215-452-91	CARBON Metal	1K 120K		1/4W 1/4W		C714	1-162-115-00	CERAMIC	330PF	10%	2KV
R664 R665	1-249-429-11 1-249-425-11	CARBON CARBON	10K 4.7K	5%	1/4W 1/4W		-	<con *1-508-784-00</con 	NECTOR>	TOR (SMM PI	ፕ <b>Ր</b> ዘ) 1P	
R666 R667 R670 R672 R673	1-249-429-11 1-249-429-11 1-247-895-00 1-247-807-31 1-249-423-11	CARBON	10K 10K 470K 100 3.3K	5%	1/4W 1/4W 1/4W 1/4W 1/4W		CN702 CN703 CN704 CN705	*1-564-510-11 *1-564-512-11 *1-564-512-11 *1-564-511-11	PLUG, CONNE PLUG, CONNE PLUG, CONNE PLUG, CONNE	SCTOR 7P SCTOR 9P SCTOR 9P SCTOR 8P	rony 11	
R674 R675 R676 R677 R678	1-249-413-11 1-249-429-11 1-249-421-11 1-249-417-11 1-249-423-11	CARBON CARBON CARBON	470 10K 2.2K 1K 3.3K	5%	1/4W 1/4W 1/4W 1/4W 1/4W		CN7DAA	1-695-915-11 1-251-170-11 *1-564-506-11	PLUG; CONNI	TURE TURE		
R679 R680 R681 R682 R683	1-249-423-11 1-249-413-11 1-249-425-11 1-249-403-11 1-249-417-11	CARBON CARBON CARBON	3.3K 470 4.7K 68 1K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		D701 D702 D703 D704 D705	8-719-911-19 8-719-911-19 8-719-911-19 8-719-110-36 8-719-987-87	DIODE 1881 DIODE 1881 DIODE RD13	19-25 19-25 ESB2		
R684 R685 R686 R687 R688	1-249-417-11 1-247-863-91 1-249-429-11 1-249-423-11 1-249-423-11	CARBON CARBON CARBON	1K 22K 10K 3.3K 3.3K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		D706 D707 D708 D710 D711	8-719-911-19 8-719-110-36 8-719-901-83 8-719-109-89 8-719-911-19	DIODE RD13 DIODE 1SS8 DIODE RD5.	ESB2 3 6ESB2		
R689 R690 R691 R693 R694	1-249-429-11 1-247-863-91 1-249-417-11 1-249-425-11 1-249-425-11	CARBON CARBON CARBON	10K 22K 1K 4.7k 4.7k	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		D713 D715 D716 D717	8-719-510-48 8-719-901-83 8-719-110-36 8-719-110-36	DIODE 1888 DIODE RD13	3 ESB2		
R695 R697 R698 R699	1-249-429-11 1-249-413-11 1-249-429-11 1-249-417-11	CARBON CARBON	10K 470 10K 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		10701	<ic 8-759-168-72</ic 		Q		
	<re< td=""><td>CLAY&gt;</td><td></td><td></td><td></td><td></td><td></td><td>CO <co< td=""><td></td><td>4801111</td><td></td><td></td></co<></td></re<>	CLAY>						CO <co< td=""><td></td><td>4801111</td><td></td><td></td></co<>		4801111		
RY601 RY602	▲ 1-755-032-17 ▲ 1-755-032-17	RELAY RELAY					L701 L703	1-408-429-00 1-408-159-00	COIL, SPOO	470UH OK CHOKE 3.3	UH	

CR CG CB

Les composants identifies par une trame et une marque \(\frac{\Lambda}{\text{}}\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark  $\Lambda$  are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
NL701	1-519-108-XX	·			,		D731 D732 D735 D736 D737	8-719-110-36 8-719-901-83 8-719-901-83 8-719-510-48 8-719-110-36	DIODE 1SS83 DIODE 1SS83 DIODE D1N2OR			
0804		NSISTOR>										
Q701	8-729-119-76	TRANSISTOR 2S	A1175-	HFE				<1C>				
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td>10731</td><td>8-759-168-72</td><td>IC TDA6101Q</td><td></td><td></td><td></td></res<>	ISTOR>					10731	8-759-168-72	IC TDA6101Q			
R701 R702	1-215-411-00 1-215-414-00	METAL Metal	390 510	1% 1%	1/4W 1/4W			<c01< td=""><td>L&gt;</td><td></td><td></td><td></td></c01<>	L>			
R704 R706 R707	1-202-847-00	SOLID CARBON METAL	560K 150 1.2K	20% 5% 1%	1/2W 1/4W 1/4W		L731 L732	1-408-429-00 1-408-159-00		470UH CHOKE 3.3U	IH	
R708	1-202-883-11		680K	20%	1/20			<neo< td=""><td>N LAMP&gt;</td><td></td><td></td><td>•</td></neo<>	N LAMP>			•
R709 R710 R711		METAL METAL METAL	4.7K 1.8K 1.8K	1% 1% 1%	1/4W 1/4W 1/4W		NL731	1-519-108-XX	LAMP, NEON			
R712	1-215-903-11	METAL OXIDE	68K	5%	2W	F		<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
R713 R714	1-202-818-00 1-202-818-00	SOLID SOLID	1 K 1 K	20%	1/2W 1/2W		R731	1-202-847-00		560K 20	% 1/2W	
R715 R716 R718	1-249-436-11 1-249-437-11 1-249-417-11	CARBON CARBON CARBON	39K 47K 1K	20% 5% 5% 5%	1/4W 1/4W 1/4W		R733 R734 R735	1-202-883-11 1-202-818-00 1-249-407-11	SOLID SOLID CARBON	680K 20 1K 20 150 5X 100K 5X	0% 1/2W 0% 1/2W	
R719 R720	1-247-807-31 1-249-437-11		100 47K	5% 5%	1/4W 1/4W		R736 R737	1-249-441-11 1-202-818-00		1K 20		
R721 R722	1-202-549-00	SOLID SOLID	100 100	20% 20%	1/2W 1/2W 1/2W		R738 R739 R740	1-202-549-00 1-215-420-00 1-215-427-00	SOLID Metal Metal	100 20 910 12 1.8K 12	)% 1/2W { 1/4W { 1/4W	
	<spa< td=""><td>RK GAP&gt;</td><td></td><td></td><td></td><td></td><td>R741</td><td>1-249-437-11</td><td>CARBON</td><td>47K 5%</td><td></td><td>В</td></spa<>	RK GAP>					R741	1-249-437-11	CARBON	47K 5%		В
SG702	1-519-422-11 1-519-422-11 1-519-422-11	GAP, SPARK					R742	1-215-903-11 <spa< td=""><td>RK GAP&gt;</td><td>68K 5%</td><td><b>3 2₩</b></td><td>ķ</td></spa<>	RK GAP>	68K 5%	<b>3 2₩</b>	ķ
*****	******	*******	*****	****	*****	******	SG731	1-519-422-11	GAP, SPARK			
:	*A-1331-409-A	CG BOARD, COM					SG732 SG733	1-519-422-11 1-519-422-11 **********************************	GAP, SPARK GAP, SPARK	:******	:*****	*****
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td>İ</td><td>*A-1331-410-A</td><td>CB BOARD, CO</td><td>IMPLETE</td><td></td><td></td></cap<>	ACITOR>					İ	*A-1331-410-A	CB BOARD, CO	IMPLETE		
C731	1-161-754-00	CERAMI C	0.001M	IF	10%	2KV			*******	*****		
C732 C733	1-107-662-11 1-102-050-00	ELECT CERAMIC	22MF 0.01MF	•	20% 99% 20%	250V 500V		<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td></cap<>	ACITOR>			
C736 C738	1-126-964-11 1-107-651-11	ELECT Elect	10MF 4.7MF		20% 20%	50V 250V	C761	1-161-754-00		0.001MF	10%	2KV
C739 C740	1-164-066-11 1-126-964-11	CERAMIC ELECT	68PF		5% 20%	50V 50V	C762 C763	1-107-662-11 1-102-050-00	CERAMIC	22MF 0.01MF	20% 99%	250V 500V
C741 C742	1-102-157-00 1-162-115-00	CERAMIC CERAMIC	10MF 560PF 330PF		10% 10%	500V 2KV	C766 C769	1-107-651-11 1-164-066-11	ELECT CERAMIC	4.7MF 68PF	20% 5%	250V 50V
0112		NECTOR>	11000		10,6	ZAV	C770 C771 C772	1-126-964-11 1-102-157-00 1-162-115-00	CERAMIC	10MF 560PF 330PF	20% 10% 10%	50V 500V 2KV
CN731 *1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P									un amon.			
CN732 *1-564-512-11 PLUG, CONNECTOR 9P CN733 *1-564-512-11 PLUG, CONNECTOR 9P CN734 *1-564-511-11 PLUG, CONNECTOR 8P							CNITCI		NECTOR>	יח /כאי מי	መሮሀኒ ተው	
CN735 *1-564-509-11 PLUG, CONNECTOR 6P CN762							CN762	*1-508-784-00 *1-564-512-11 *1-564-509-11	PLUG, CONNEC	CTOR 9P	IICM) IP	
CN736 CN738 <i>A</i>	CN736 1-695-915-11 TAB (CONTACT) CN738A 1-251-179-11 SOCKET, PICTURE TUBE							*1-564-509-11 · 1-695-915-11 &1-251-179-11	TAB (CONTACT	[]		
	<diode></diode>							>10>	IDE>			

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \(\frac{\Lambda}{\text{}}\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION		<u></u>	REMARK
D761	8-719-110-36	NIONE BNIZESE	2			C814 C815	1-124-122-11 1-162-114-00	BLECT CERAMIC	100MF 0.0047MF	20%	50V 2KV
D762 D763	8-719-901-83 8-719-911-19	DIODE 1883 DIODE 188119-	25 25			C818 A	1-109-833-11 1-130-489-00	PILM FILM	0.0145MF 0.033MF	<b>3%</b> 5%	1.8KV 50V
D764 D765	8-719-110-36 8-719-110-36	DIODE RD13ESB DIODE RD13ESB	2			C820 C823	1-124-902-00 1-136-601-11	FILM	0.47MF 0.01MF	20% 5%	50V 630V
D767 D768 D769		DIODE 1SS83 DIODE D1N2OR	2			C824 C825 C826	1-126-964-11 1-162-318-11 1-130-467-00	ELECT CERAMIC	10MF 0.001MF 470PF	20% 10% 5%	50V 500V 50V
רסוס		V1006 R013630	4			C827	1-107-652-11 1-111-036-91		10MF 470MF	20% 20%	250V 16V
10761	<1C> 8-759-168-72	IC TDA6101Q				C828 C830 C831	1-107-368-11 1-126-934-11	FILM ELECT	0.047MF 220MF	10% 20%	200V 16V
	<c011< td=""><td>L&gt;</td><td></td><td></td><td></td><td>C832</td><td>1-124-927-11</td><td>CERAMIC CHIP</td><td>4.7MF 100PF</td><td>20% 5%</td><td>50V 50V</td></c011<>	L>				C832	1-124-927-11	CERAMIC CHIP	4.7MF 100PF	20% 5%	50V 50V
L761 L762	1-408-429-00 1-408-159-00	INDUCTOR COIL, SPOOK C	470UH HOKE 3.3	JH <sup>-</sup>		C902 C903 C904 C905	1-137-370-11 1-137-361-11 1-137-358-11 1-104-665-11	FILM FILM	0.01MF 330PF 0.0001MF 100MF	5% 5% 5% 20%	50V 50V 50V 25V
	<neo!< td=""><td>N LAMP&gt;</td><td></td><td></td><td></td><td>C906</td><td>1-137-370-11</td><td>FILM</td><td>0.01MF</td><td>5% 20%</td><td>50V 25V</td></neo!<>	N LAMP>				C906	1-137-370-11	FILM	0.01MF	5% 20%	50V 25V
NL760	1-519-108-XX	LAMP, NEON				C907 C908 C909 C911	1-104-665-11 1-137-361-11 1-124-903-11 1-163-117-00	FILM	100MF 330PF 1MF 100PF	20% 5% 20% 5%	50V 50V 50V
		ISTOR>				C912 C913	1-124-903-11	ELECT	1MF	20%	50V
R761 R763 R764 R767	1-202-847-00 1-202-883-11 1-202-818-00 1-202-818-00	SOLID SOLID SOLID	560K 2 680K 2 1K 2 1K 2 100 2	0% 1/2W 0% 1/2W 0% 1/2W 0% 1/2W		C913 C915 C916 C917	1-124-903-11 1-163-105-00 1-124-927-11 1-126-964-11	ELECT CERAMIC CHIP ELECT ELECT	1MF 33PF 4.7MF 10MF	20% 5% 20% 20%	50V 50V 50V 50V
R768 R769	1-202-549-00 1-215-421-00	METAL	1W 1 5.6K 5			C918 C919	1-137-364-11 1-126-964-11	ELECT	0.001MF 10MF	5% 20%	50V 50V
R770 R771 R773 R774	1-249-426-11 1-215-427-00	CARBON METAL METAL OXIDE CARBON	5.6K 5 1.8K 1 68K 5 150 5	% 1/4W % 1/4W % 2W % 1/4W	F	C920 C921 C923	1-124-902-00 1-126-964-11 1-126-964-11	ELECT	0.47MF 10MF 10MF	20% 20% 20%	50V 50V 50V
R775	1-202-549-00			0% 1/2W		C924 C925 C926	1-126-940-11 1-137-372-11 1-104-665-11	FILM	330MF 0.022MF 100MF	20% 5% 20%	16V 50V 25V
	<spa< td=""><td>RK GAP&gt;</td><td></td><td></td><td></td><td>C927 C929</td><td>1-137-364-11 1-137-416-11</td><td>FILM</td><td>0.001MF 0.01MF</td><td>5% 10%</td><td>50V 100V</td></spa<>	RK GAP>				C927 C929	1-137-364-11 1-137-416-11	FILM	0.001MF 0.01MF	5% 10%	50V 100V
SG761 SG762 SG763	1-519-422-11 1-519-422-11 1-519-422-11	GAP, SPARK				C930 C931 C932	1-137-364-11 1-126-967-11 1-124-903-11	ELECT ELECT	0.001MF 47MF 1MF	5% 20% 20%	50V 50V 50V
*****	:******		******	*******	******	C934 C935	1-137-370-11 1-137-399-11	FILM FILM	0.01MF 0.1MF	5% 10%	50V 100V
	*A-1341-885-A	E BOARD, COM				C936 C937	1-126-964-11 1-126-964-11	ELECT	10MF	20% 20%	50V 50V
	1-923-505-05 4-365-216-00 4-382-854-11	WIRE UL1007 SPACER, MICA SCREW (M3X10				C938 C939 C940	1-126-940-11 1-126-964-11 1-104-663-11	ELECT	330MF 10MF 33MF	20% 20% 20%	16V 50V 25V
			,, ,, ,,	<b>(</b> -7		C941 C942	1-126-964-11 1-104-663-11	ELECT	10MF 33MF	20% 20%	50V 25V 50V
C801	1-110-626-11	PACITOR> ELECT	330MF	20%	160V	C943 C944 C945	1-128-551-11 1-126-964-11 1-126-964-11	ELECT	22MF 10MF 10MF	20% 20% 20%	50V 50V
C802 C803 C805	1-163-117-00 1-110-626-11 1-136-173-00	CERAMIC CHIP ELECT FILM	100PF 330MF 0.47MF	5% 20% 5%	50V 160V 50V	C946 C947	1-124-925-11 1-104-665-11	ELECT	2.2MF 100MF	20% 20%	50V 25V
C806 C807	1-102-030-00	CERAMIC	330PF 0.068MF	10% 10%	500V 200V	C948 C949 C950	1-104-665-11 1-126-964-11 1-126-964-11	ELECT ELECT	100MF 10MF 10MF	20% 20% 20%	25V 50V 50V
C808 C809	1-107-636-11 1-104-664-11	ELECT Elect	10MF 47MF	20% 20%	160V 25V	C951	1-124-903-11	ELECT	1MF	20%	50V
C810 C811	1-130-481-00 1-137-475-11	FILM	0.0068M 2.2MF	10%	50V 250V	C953 C954 C955	1-163-009-11 1-163-009-11 1-126-964-11	CERAMIC CHII ELECT	P 0.001MF 10MF	10% 10% 20%	50V 50V 50V
C812	1-128-551-11	ELECT	22MF	20%	50V	¦ C980	1-137-368-11	FILM	0.0047MF	5 <b>%</b>	50V



REMARK | REF. NO. PART NO.

DESCRIPTION

REMARK

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

### <FERRITE BEAD>

FB001 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH FB002 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH

### <1C>

Les composants identifies par une trame et une marque  $\Delta$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

IC901 8-759-133-90 IC UPC339C IC902 8-759-133-90 IC UPC339C IC903 8-759-711-28 IC NJM2058D IC904 8-759-634-51 IC M5218AP IC905 8-759-929-65 IC LM7912CT IC906 8-759-701-79 IC NJM7812FA

### <COIL>

L801 L802 L803 L804 L901 39UH

L902 1-408-416-00 INDUCTOR 39UH

### <NEON LAMP>

NL802 1-519-108-XX LAMP, NEON

	<trai< th=""><th>ISTSTOR&gt;</th><th></th><th></th></trai<>	ISTSTOR>		
Q801 Q802 Q803 Q806 Q807	8-729-119-80 8-729-119-80 8-729-122-12 8-729-805-07 8-729-120-28	TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA	22688-LK 22688-LK 1221-L 1887-CA 21623-L5L6	
Q808 Q809 Q810 Q811 Q813	8-729-024-30 8-729-823-81 8-729-231-55 8-729-823-81 8-729-216-22	TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO	1640LF 24632LS-CB7 2878AB 24632LS-CB7 11162-G	
Q901 Q902 Q903 Q904 Q905	8-729-120-28 8-729-140-93 8-729-140-96 8-729-120-28 8-729-120-28	TRANSISTOR 2SI TRANSISTOR 2SO	3733-34 3774-34	
0906 0907 0908 0909 0910	8-729-120-28 8-729-231-55 8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 250 TRANSISTOR 250	21623-L5L6 22878AB 21623-L5L6 21623-L5L6 21623-L5L6	
Q911 Q912 Q913 Q914 Q915	8-729-120-28 8-729-216-22 8-729-900-36 8-729-120-28 8-729-120-28		1162-G	
	<res< th=""><th>ISTOR&gt;</th><th></th><th></th></res<>	ISTOR>		
R801 R802 R804 R805 R806	1-216-041-00 1-249-421-11 1-249-425-11 1-216-435-11 1-249-431-11	METAL GLAZE CARBON CARBON METAL OXIDE CARBON	470 5% 2.2K 5% 4.7K 5% 2.7K 5% 15K 5%	1/10W 1/4W 1/4W 1W 1/4W
				- 1011

CARBON

 The components identified by 

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

5%

560

/10W

1/4W F

REF.NO.	PART NO.	DESCRIPTION	
	<00	NDUCTOR CHIP>	
	1-216-295-00 1-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP	

### <CONNECTOR>

CN802 *1-564-510-11	PLUG, CONNECTOR 7P
CN805 1-695-915-11	TAB (CONTACT)
CN827 *1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P
CN851 *1-564-509-11	PLUG, CONNECTOR 6P
CN881 *1-573-986-11	PIN. CONNECTOR (PC BOARD) 5P
CN882 *1-691-135-11	PIN. CONNECTOR (PC BOARD) 4P
CN884 *1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P
CN885 *1-506-371-00	PIN. CONNECTOR 2P
CN886 *1-506-371-00	PIN, CONNECTOR 2P
CN904 *1-564-507-11	PLUG. CONNECTOR 4P

### <DIODE>

	12.10.	J U-
D801	8-719-109-85	DIODE RD5.1ESB2
D802	8-719-404-46	DIODE MA110
D803	8-719-971-20	DIODE ERC38-06
D804	8-719-908-03	DIODE GPO8D
D805	8-719-945-80	DIODE BRC06-15S
D806	8-719-911-19	DIODE ISS119-25
D807	8-719-945-80	DIODE ERCO6-15S
D808	8-719-500-71	DIODE D8LC40F
D809	8-719-911-19	DIODE ISS119-25
D810	8-719-945-80	DIODE ERCO6-15S
D811	8-719-920-67	DIODE ERC91-02
D812	8-719-404-46	DIODE MA110
D814	8-719-920-67	DIODE ERC91-02
D816	8-719-404-46	DIODE MA110
D817	8-719-404-46	DIODE MA110
D818	8-719-404-46	DIODE MA110
D819	8-719-105-82	DIODE RD5.1M-B2
D901	8-719-404-46	DIODE MA110
D902	8-719-404-46	DIODE MA110
D904	8-719-404-46	DIODE MA110
D905	8-719-404-46	DIODE MA110
D907	8-719-404-46	DIODE MA110
D908	8-719-105-82	DIODE RD5.1M-B2
D909	8-719-302-43	DIODE EL1Z
D911	8-719-105-82	DIODE RD5.1M-B2
D912 D913 D914 D915 D916	8-719-105-82 8-719-404-46 8-719-404-46 8-719-404-46 8-719-105-57	DIODE RD5.1M-B2 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE RD3.9M-B1
D917	8-719-404-46	DIODE MA110
D918	8-719-404-46	DIODE MA110
D919	8-719-106-81	DIODE RD13M-B3
D920	8-759-157-40	DIODE UPC574J
D921	8-719-106-81	DIODE RD13M-B3
D922	8-719-404-46	DIODE MA110
D923	8-719-404-46	DIODE MA110
D924	8-719-404-46	DIODE MA110
D925	8-719-105-45	DIODE RD3.3M-B1
D926	8-719-404-46	DIODE MA110
D927	8-719-105-73	DIODE RD4.7M-B2

1-260-325-11

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque Å sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



	D. D. D. D. D. D. D. D. D. D. D. D. D. D											L
REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK 
R809 A	1-249-427-11	CARBON CARBON	6.8K	59	1/4W 1/4W	F	R928	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R811 R812 R813	1-216-097-00 1-216-395-00 1-216-484-00 1-215-919-11	METAL GLAZE METAL OXIDE METAL OXIDE METAL OXIDE	100K 3.3 3.9K	5% 5% 5%	1/10W 3W 3W 3W	F F	R929 R930 R931 R932 R933	1-216-041-00 1-216-081-00 1-216-059-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 22K 2.7K 2.7K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
R816 R817 R818 R819	1-216-051-00 1-216-395-00 1-249-405-11 1-216-083-00	METAL GLAZE METAL OXIDE CARBON METAL GLAZE	2.2K 1.2K 3.3 100 27K	5% 5% 5%	1/10W 3W 1/4W 1/10W	F F	R934 R935 R936 R937	1-216-081-00 1-216-085-00 1-216-049-00 1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 1K 4.7K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R820 R821 R822 R823 R825	1-215-905-11 1-216-073-00 1-215-928-11 1-216-047-00 1-215-928-11	METAL OXIDE METAL GLAZE METAL OXIDE METAL GLAZE METAL OXIDE	10 10K 68K 820 68K	5%	3W 1/10W 3W 1/10W 3W	F	R938 R939 R940 R941	1-208-810-11 1-216-073-00 1-216-083-00 1-216-091-00	METAL CHIP  METAL GLAZE  METAL GLAZE  METAL GLAZE	15K 10K 27K 56K	0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W
R826 R830 R831 R832 R835	1-216-033-00 1-215-928-11 1-215-919-11 1-216-049-00 1-249-474-11	METAL GLAZE METAL OXIDE METAL OXIDE METAL GLAZE CARBON	220 68K 2.2K 1K 1	5%	1/10W 3W 3W 1/10W 1/2W	F F	R942 R943 R944 R945 R946	1-216-049-00 1-249-377-11 1-216-689-11 1-216-077-00 1-216-073-00	CARBON METAL GLAZE METAL GLAZE	1K 0.47 39K 15K 10K	5% 5% 5%	1/10W 1/4W F 1/10W 1/10W 1/10W
R836 R837 R838 R839	1-202-818-00 1-215-870-11 1-247-807-31 1-249-429-11	SOLID METAL OXIDE CARBON CARBON	1K 1.5K 100 10K	20% 5% 5%	1/2W 1W 1/4W 1/4W	<b>F</b> .	R947 R948 R950 R952	1-216-025-00 1-216-051-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 1.2K 1K 1K 100K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R841 R843 R844 R846	1-216-491-11 1-202-549-00 1-216-491-11 1-202-838-00	METAL OXIDE SOLID METAL OXIDE SOLID	56K 100 56K 100K 10K	5% 20% 5%	3W 1/2W 3W 1/2W	F	R954 R955 R956	1-214-777-00 1-214-769-00 1-208-806-11 1-218-754-11	METAL METAL HETAL CHIP METAL CHIP	47K 10K 120K	0.50% 0.50%	1/10₩
R847 R849 R850 R851	1-216-073-00 1-247-863-91 1-216-081-00 1-216-667-11	METAL GLAZE CARBON METAL GLAZE METAL CHIP	22K 22K 4.7K	5% 5% 0.50%	1/10W 1/4W 1/10W 1/10W	•	R957 R958 R959 R960 R962	1-218-756-11 1-214-757-00 1-216-077-00 1-208-806-11	METAL METAL GLAZE METAL CHIP	15K 15K 10K	5% 0.50%	1/4W 1/10W 1/10W
R852 R854 R855 R856 R857	1-208-806-11 1-249-381-11 1-208-822-11 1-208-822-11 1-218-755-11	METAL CHIP CARBON METAL CHIP METAL CHIP METAL CHIP	10K 1 47K 47K	5% 0.50%	1/10W 1/4W 1/10W	F	R963 R964 R965 R966 R967	1-214-749-00 1-214-757-00 1-216-097-00 1-214-757-00 1-216-025-00	METAL METAL GLAZE METAL	6.8K 15K 100K 15K 100	1% 5% 1%	1/4W 1/4W 1/10W 1/4W 1/10W
R858 R901 R902	1-216-676-11 1-216-065-00 1-216-065-00 1-216-085-00	METAL CHIP METAL GLAZE METAL GLAZE	11K	0.50% 5% 5%	1/10W		R968 R969 R970 R971	1-214-751-00 1-214-731-00 1-214-757-00 1-216-121-00 1-216-699-11	METAL GLAZE	8.2K 1.2K 15K 1M	1% 1% 1% 5% 0.50%	1/4W 1/4W 1/4W 1/10W
R904 R905 R906 R907	1-216-057-00 1-247-739-11 1-247-739-11 1-216-091-00	METAL GLAZE	2.2K 100 100 56K	5%	1/10W 1/2W 1/2W 1/2W 1/10W	F F	1		METAL GLAZE METAL CHIP METAL GLAZE			1/10W
R908 R909 R910 R911 R912	1-216-085-00 1-216-113-00 1-216-059-00 1-216-059-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 470K 2.7K 2.7K 10K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R977 R978 R979 R980	1-216-075-00 1-216-057-00 1-216-075-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 2.2K 12K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R913 R914 R915 R916 R917	1-216-077-00 1-216-049-00 1-216-091-00 1-216-065-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 1K 56K 4.7K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R981 R982 R983 R984 R985	1-216-073-00 1-216-671-11 1-216-083-00 1-208-812-11	METAL CHIP  METAL GLAZE  METAL GLAZE	10K 6.8K 27K 18K	5% 0.50% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W
R918 R919 R920 R921 R922	1-216-073-00 1-216-077-00 1-216-113-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 15K 470K 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	  -  -	R986 R987 ■R988 2	1-216-049-00 1-216-059-00 <b>k</b> 1-216-462-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K	5% 5%	1/10W 1/10W 1/10W 2W F
R923 R924 R926 R927	1-216-073-00 1-216-077-00 1-216-067-00 1-216-049-00 1-249-377-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	10K 15K 5.6K 1K 0.47	5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W	 	R990 R991 R992 R993 R994	1-215-897-11 1-208-803-11 1-249-431-11 1-249-431-11 1-247-807-31	METAL CHIP CARBON CARBON	6.8K 7.5K 15K 15K 100	5% 0.50% 5% 5%	2W F 1/10W 1/4W 1/4W 1/4W

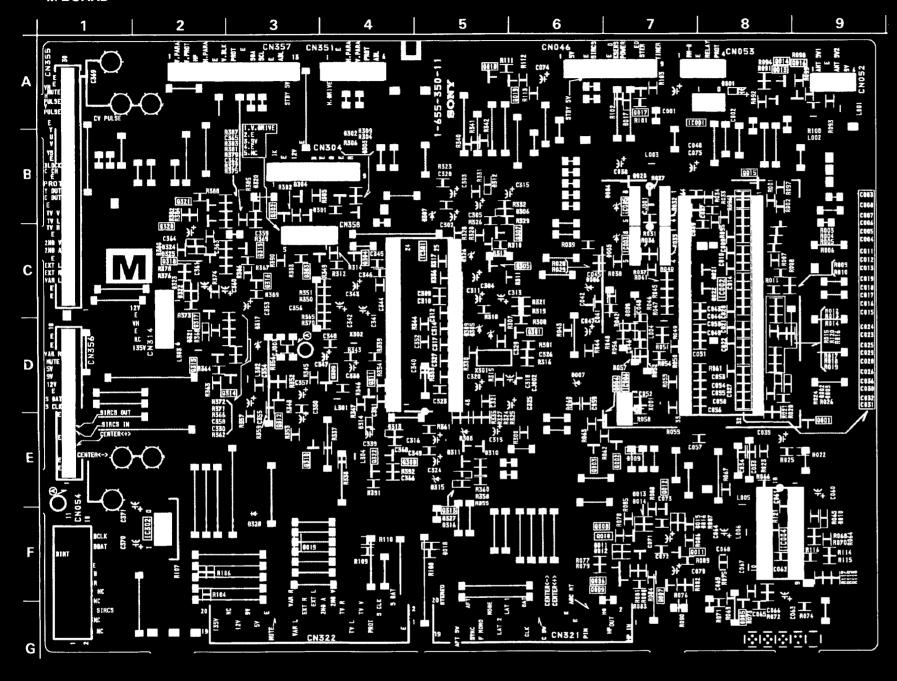
<sup>•</sup> The components identified by 

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

### YCJ/MICRO COM, CAPTION VISION

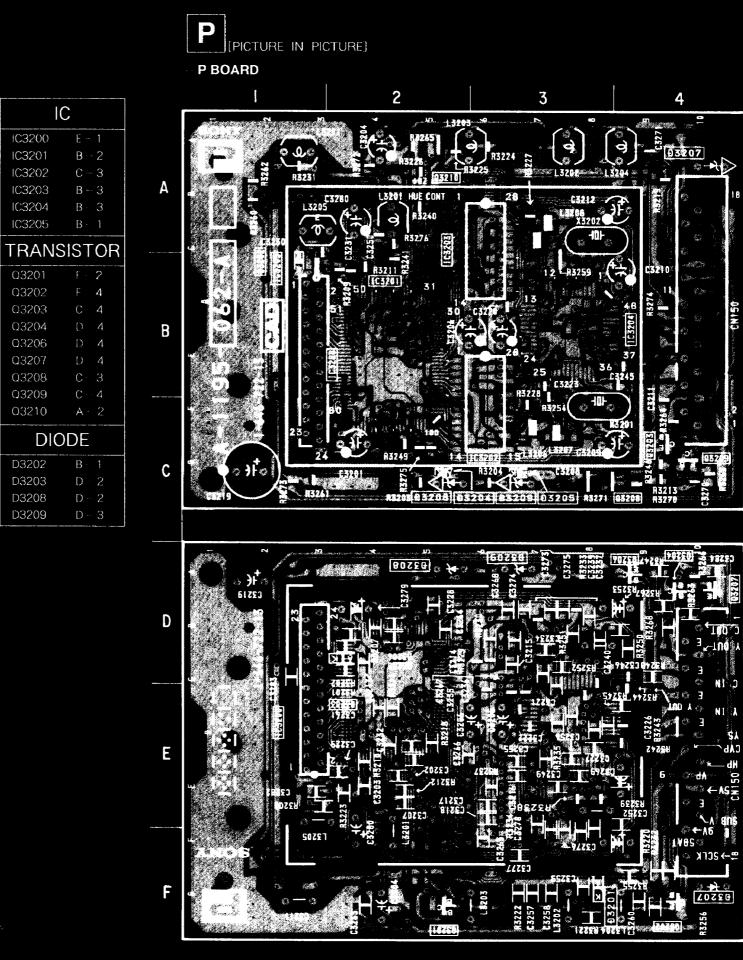
- M BOARD -



### M BOARD

M BOARD										
	С	DIC	DDE							
IC001	A – 8	D001	A – 8							
IC002	C - 8	D002	D-8							
IC003	C - 7	D003	D - 9							
IC004	F – 8	D004	B - 7							
IC005	B - 7	D005	C - 7							
IC006	E – 7	D006	C - 6							
IC301	C – 5	D007	D - 6							
IC302	F – 2	D008	D - 7							
TRANS	SISTOR	D009 D010	E – 7 F – 9							
Q001	E – 9	D010 D011	F – 9 F – 7							
Q001	E – 9 E – 7	D011	F 7							
Q003	E - 6	D012	F - 7							
Q003 Q004	E - 7	D013	F - 7							
Q004 Q005	G-8	D014	F - 7							
Q005 Q006	6 8 F - 7	D016	F – 7							
Q007	F - 7	D017	A – 7							
2008	F - 7	D018	F – 5							
Q009	F - 7	D019	F – 3							
Q010	F – 7	D020	B – 7							
Q011	F – 7	D305	D - 5							
Q012	F - 7	D307	C - 5							
Q017	A - 7	D308	E - 5							
Q018	A – 5	D309	D - 5							
Q019	A – 6	D310	E - 5							
Q30 <b>1</b>	D-6	D311	E – 5							
Q302	C – 3	D312	B - 5							
G303	C - 4	D313	E – 4							
Q304	C – 4	D314	E – 4							
Q305	C - 5	D315	E-5							
Q307	C – 5	D316	E-5							
0308	E-4	D317	D – 3							
0309	D - 4	D320	B – 3							
Q310	E-4	D321	D – 2							
Q311	D - 4	D322	C – 2 C – 2							
Q312	E – 3 E – 5	D323 D324	C – 2							
Q313 Q314	E – 5 D – 3	D324 D325	C – 2							
Q314 Q315	D – 3	D325	C – 2 C – 5							
Q315	D – 3	D328	C – 5 E – 5							
Q317	C – 3 D – 2	D327	F – 3							
Q318	C – 2	SOLO								
Q319	C – 3									
Q320	C – 2									
Q321	B – 2									
Q322	E 4									

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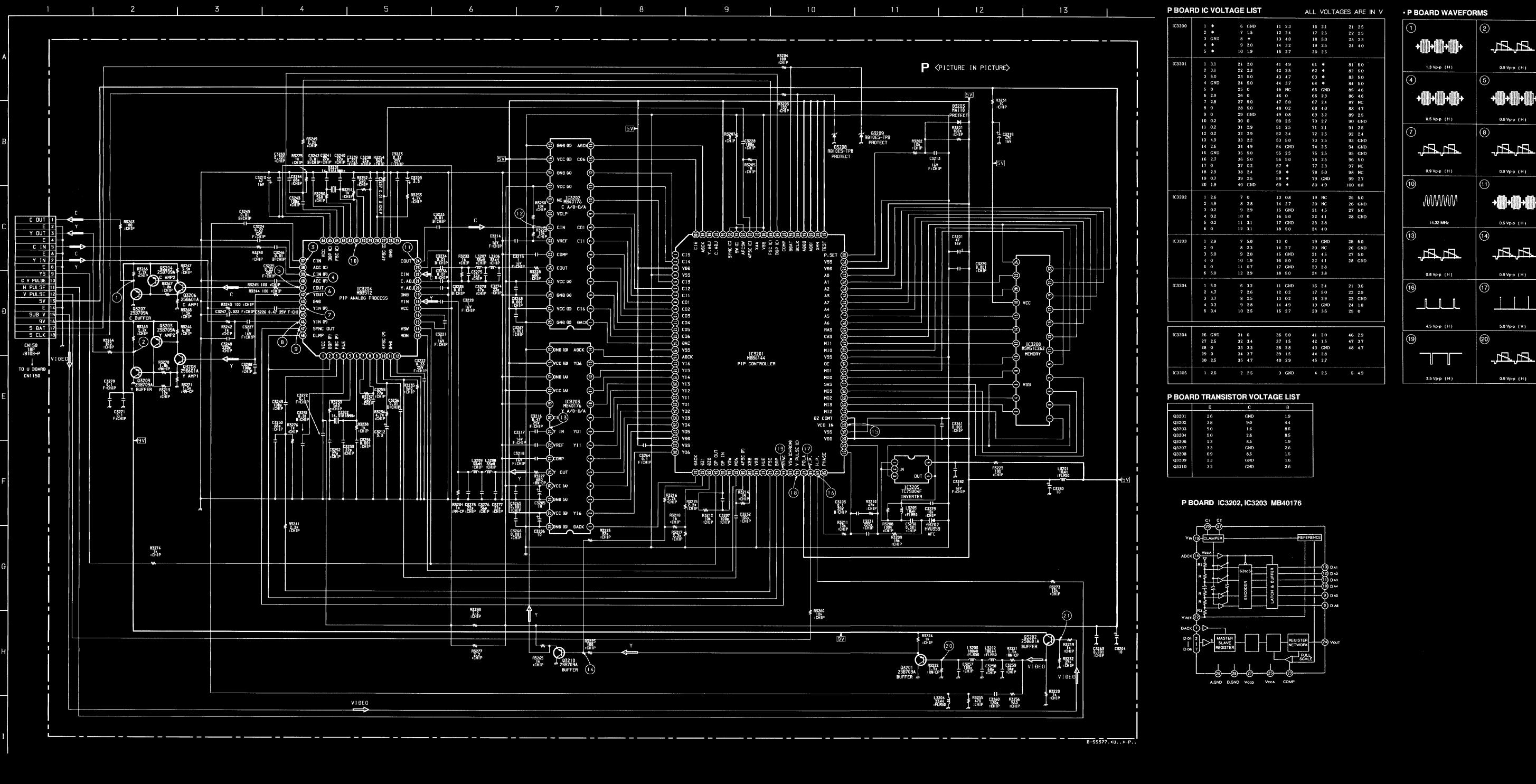


Note

Pattern of the rear side

63

64



oard Schematic diagrams

E EA boards

0.5 Vp-p (H)

'ta'ta'

0.9 Vp-p (H)

3.5 Vp-p (H)

0.6 Vp-p (H)

5.0 Vp-p (V)

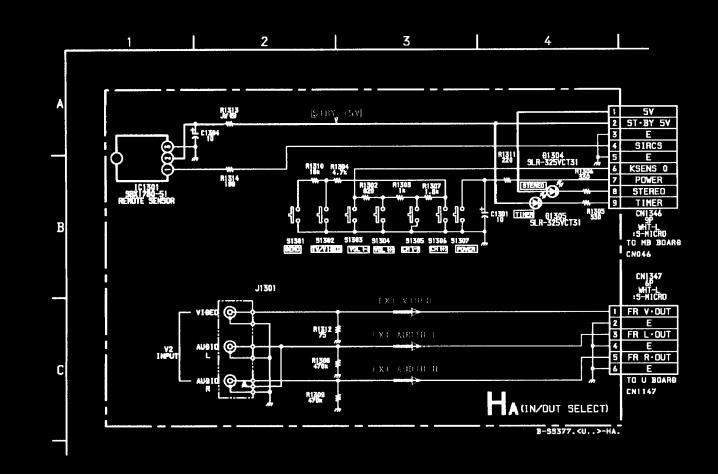
1.7 Vp-p (H)

**— 68 —** 

← P board

**— 66** -

**— 67** –



HA BOARD IC VOLTAGE LIST

(C901	1	-6.3	4	3.9	7	4.8	10	4.0	13	-11.6
.0301		6.3		7.7		2.5		0		2.0
		12.0		7.7		2.8		-12.0		
IC902	1	0.2		5.2	7	0	10	4.0	13	0.2
	2	0	5	4.8	8	5.2	11	0	14	0
	3	12.0	6	5.2	9	5.0	12	GND		
IC903	1	3.9	4	11.6	7	7.6	10	7.6	13	11.2
	2	3.9	5	7.6	8	3.9	11	-11.1	14	11.2
	3	3.9	6	7.6	9	7.6	12	0.4		
IC904	1	8.9	3	8.9	5	GND	7	2.2		
	2	8.9	4	-12.0	6	0.2	8	12.0		
IC905	1	-12.0	2	-15.0	3	GND				

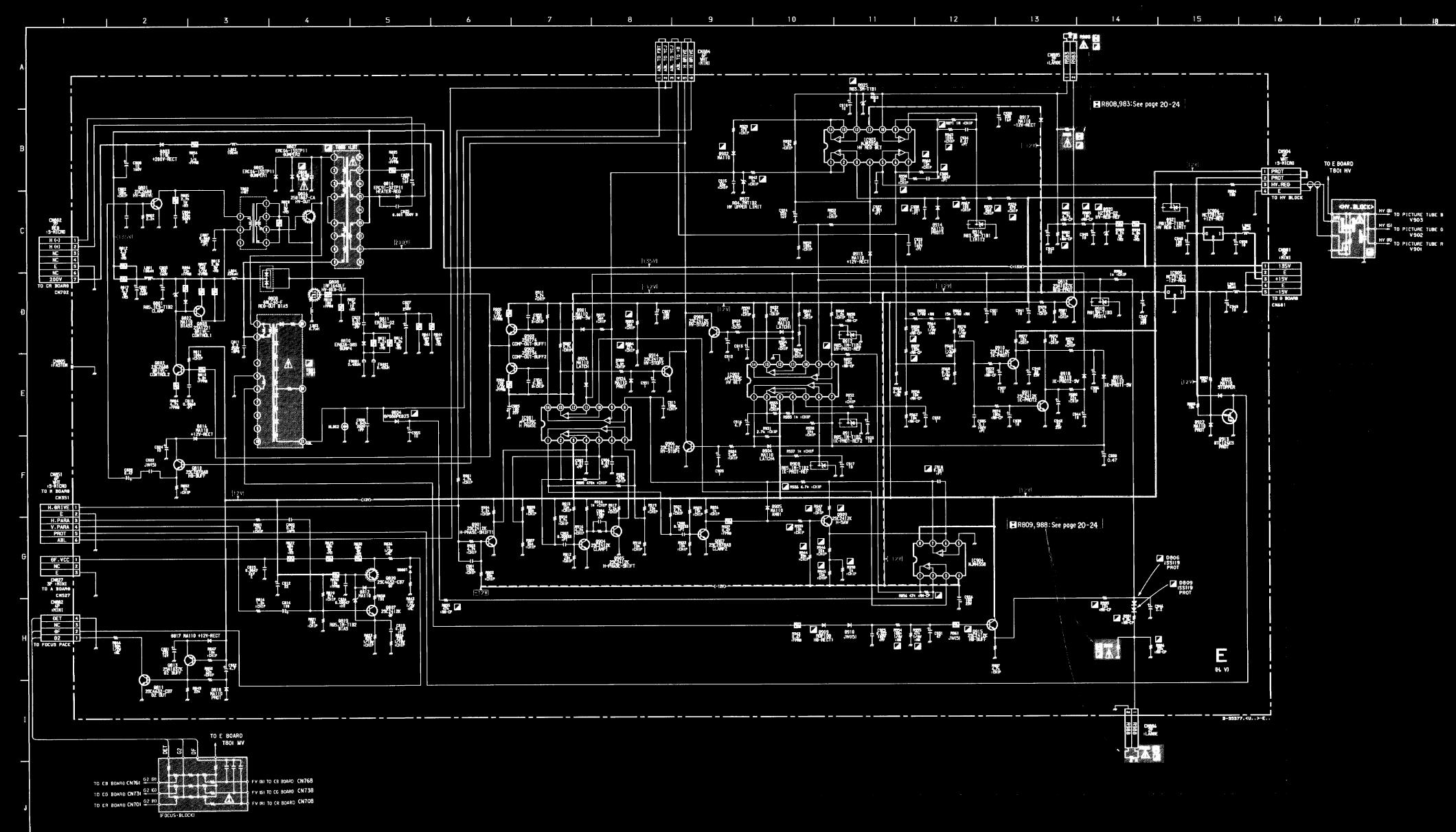
1 12.0 2 15.0 3 GND

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2 5.1 3 GND

ALL VOLTAGES ARE IN V

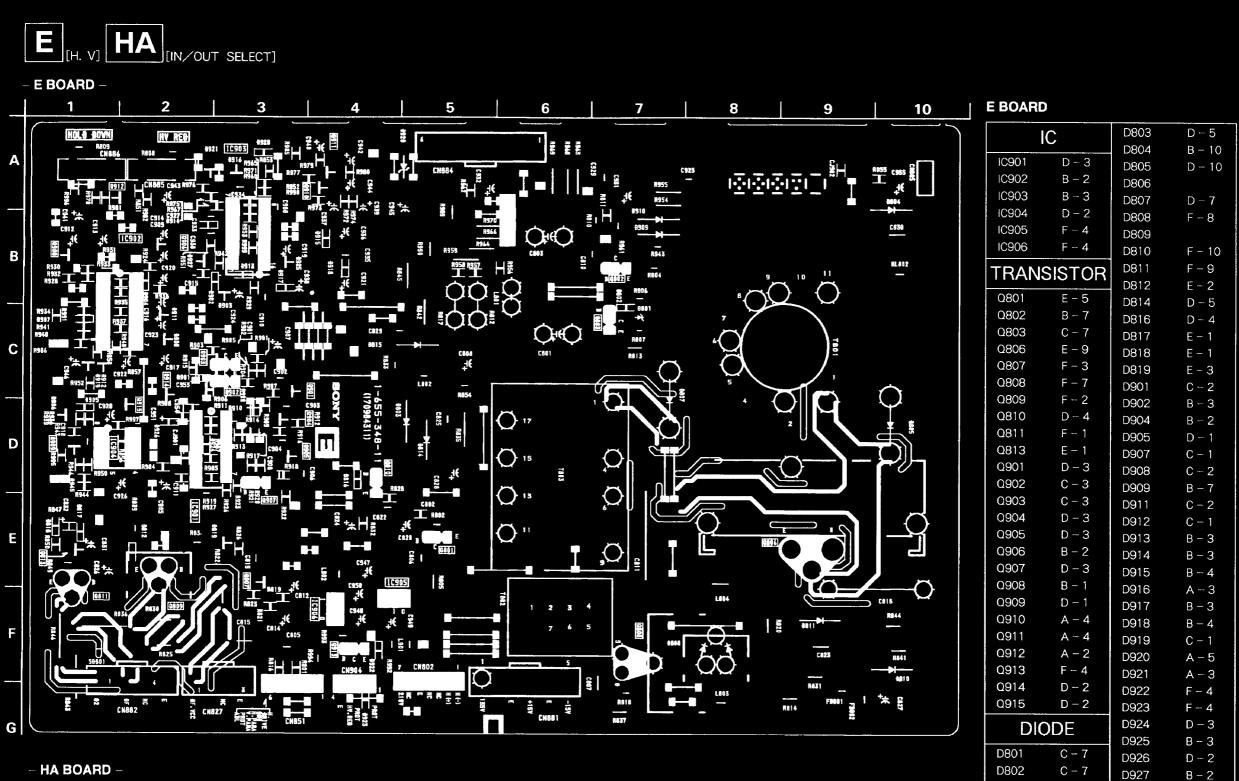
E BOA	RD TRANS	STOR VOLT	AGE LIST
	Ē	c	В
Q801	GND	106.7	-0.3
Q802	2.1	131.7	2.5
Q803	1323	1068	131.7
Q806	51.9	135.6	51.9
Q807	2.7	11.6	3.3
Q809	11.9	354.0	12.3
Q810	2.1	11.7	2.6
Q811	GND	642.0	0
Q813	12.3	0	12.3
Q901	GND	3.9	0.3
Q902	1.9	-12.0	2.0
Q903	1.9	12.0	2.0
Q904	GND	0.6	0.6
Q905	GND	7.7	0.2
Q906	GND	2.6	0.2
Q907	GND	0.6	0.5
Q908	GND	2.6	0.2
Q909	0.2	2.2	-2.1
Q910	GND	0	0.7
Q911	GND	0	0.7
Q912	10.7	GND	10.1
Q913	GND	3.4	-0.3
Q914	GND	2.6	-0.6
Q915	0	12.0	0
	S	D	G
Q808	0	51.9	1.9

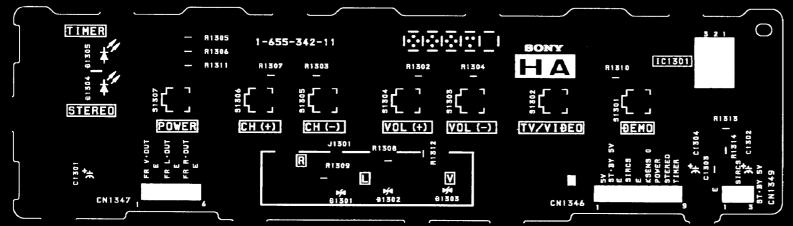


-73-

- **72** -

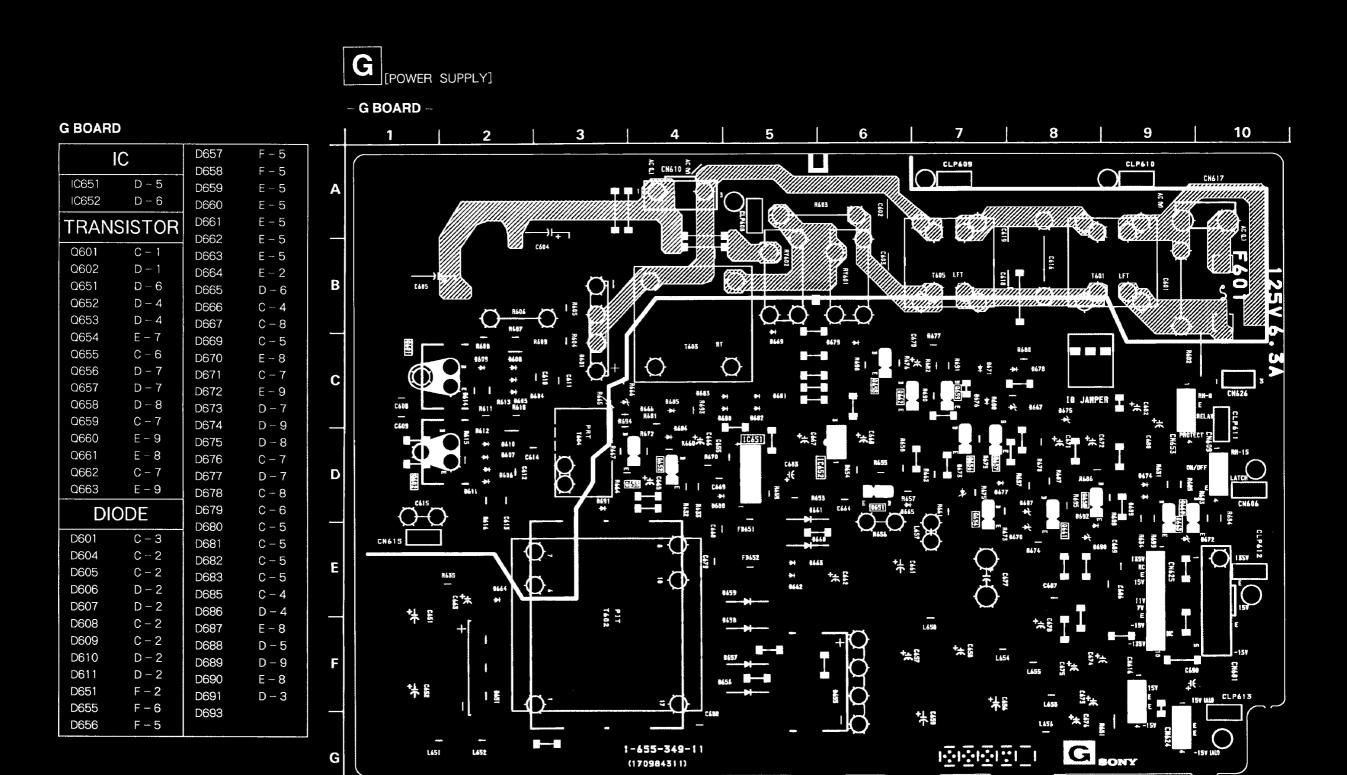
**— 74 —** 

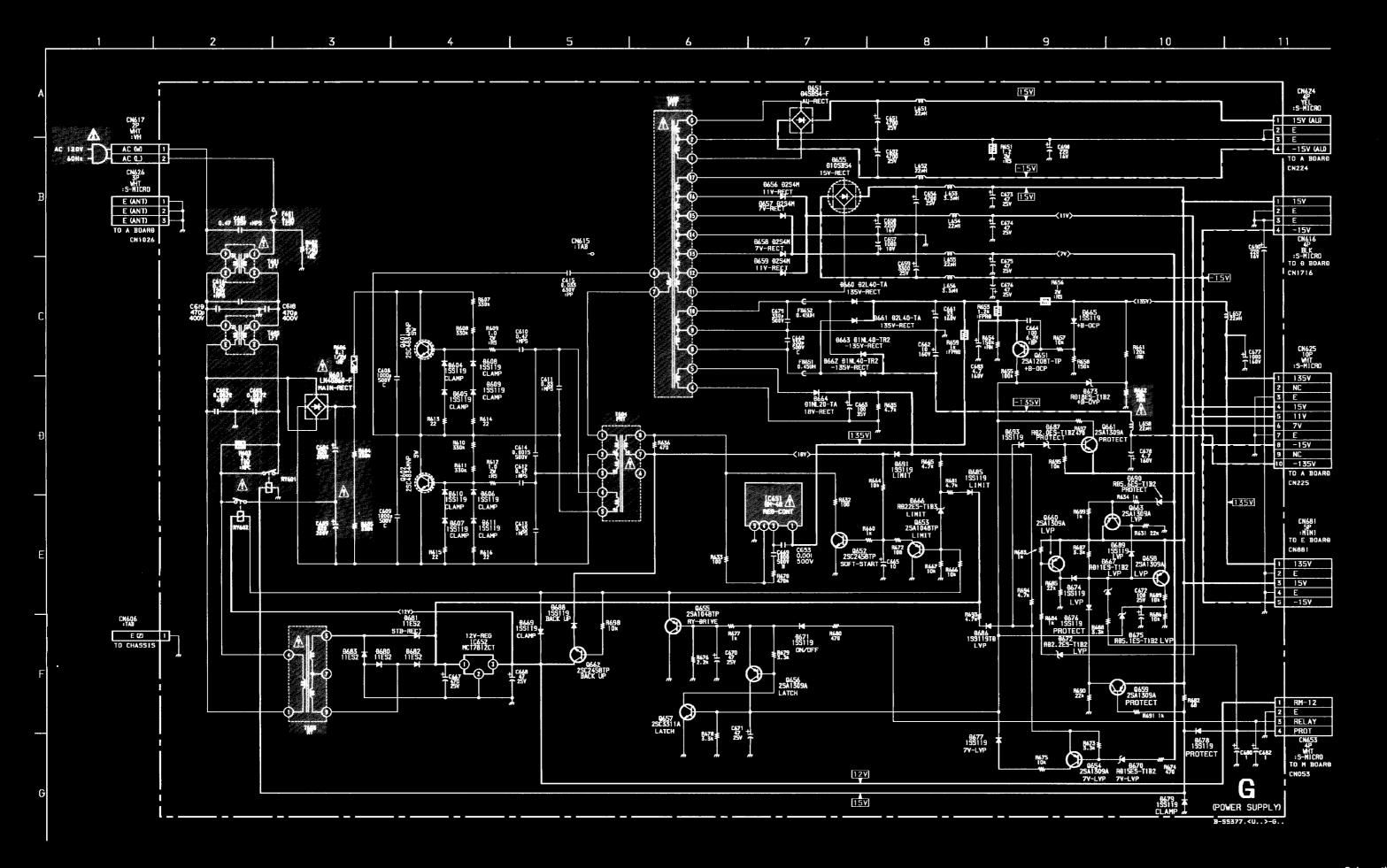






The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.





**G BOARD IC VOLTAGE LIST** 

ALL VOLTAGES ARE IN V

IC651	1 135.4	3 2.6	4 8.9	5 GND
IC652	1 22.0	2 GND	3 12.0	

### G BOARD TRANSISTOR VOLTAGE LIS

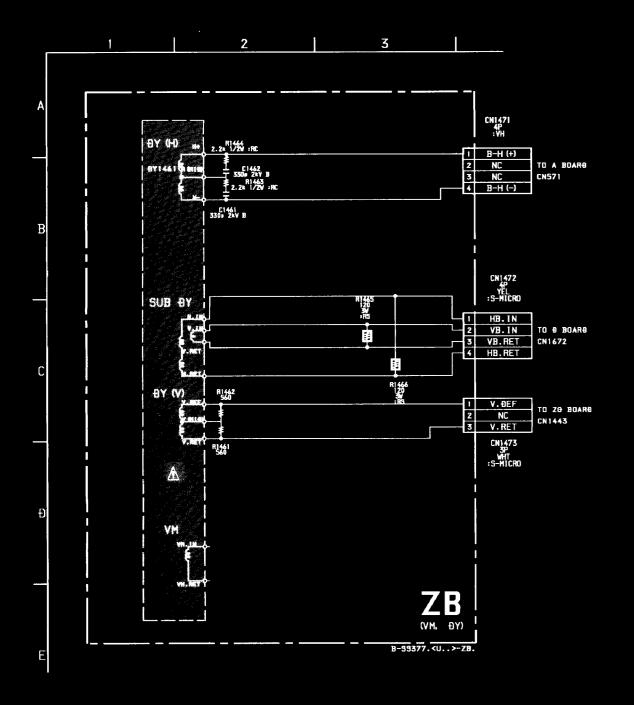
G BOA	G BOARD TRANSISTOR VOLTAGE LIST									
	E	С	В							
Q601	1.8	0	- 3.9							
Q602	-1185	-1.8	-120.3							
Q651	135.5	0.2	135.4							
Q652	13.0	GND	15.1							
Q653	GND	15.1	0							
Q654	15.7	-2.0	15.7							
Q655	GND	0.2	0.8							
Q656	2.7	0.2	2.7							
Q657	GND	2.7	0.2							
Q658	15.0	8.2	14.8							
Q659	15.0	15.3	14.6							
Q660	15.0	15.3	14.6							
Q661	11.0	0.2	11.5							
Q662	12.0	12.1	11.4							
Q663	15.0	15.3	14.6							

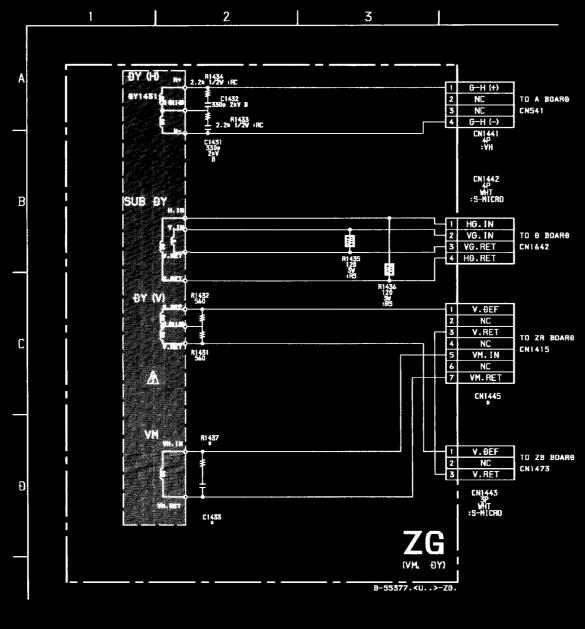
Schematic diagrams

Schematic diagrams

ZB ZG ZR boards →

← G board





### ZG BOARD \* MARK

Ref.No.	KP-41T15(U/C)	KP-46S15(U/C)	KP-53S15(U/C)
C1433	100p	-	-
CN1445	7P	3P	3P
R1437	1k	-	-

- : NOT MOUNT

### ZR BOARD \* MARK

Ref.No.	KP-41T15(U/C)	VD ACCIE/INC	VD E3C1E(UVC)	
	KP-41115(U/C)	KP-46S15(U/C)	KP-53S15(U/C)	
C1403	220p	-	-	
C1404	33 160V		-	
C1405	100 25V		-	
C1406	- 0.1		-	
C1407	100 25V		-	
C1408	0.0047	-	-	
C1409	2.2 160V	-	-	
C1410	0.0047	-	-	
C1411	0.001		-	
C1412	0.001		-	
C1413	0.0047	-	-	
C1414	330 16V		_	
C1415	10p			
C1416	100p	-		
CN1414	6P		-	
CN1415	7 <b>P</b>	3P	3P	
D1401	RD39ES-T1B		-	
D1402	RD39ES-T1B	-	-	
L1401	JW 5MM	-	-	
Q1401	2SC4793	-	_	
Q1402	2SA1837	-	-	
Q1403	2SD774-T-4	-		
R1405	1k	-	-	
R1406	560 3W	-	-	
R1407	39	-		
R1408	1.8	-	-	
R1409	1.8	-	-	
R1410	39 1/2W	-	-	
R1411	1k	-	-	
R1412	560	-	-	
R1413	18k	-	-	
R1414	18k	-	-	
R1415	560	-	-	
R1416	120 2W	~	-	
R1418	0.47	_	_	
R1419	220	-	-	
R1421	1k	-	-	

1 HR. IN 2 VR. IN TO 0 BOAR0 3 VR. RET CN1612 4 HR. RET V. RETE CN1412 4P RED :S-MICRO H. RET DY (V) V. BEF 560 1 V.ĐEF 2 NC 3 V.RET V OH I BU C1407 CN1413 3P WHT :5-MICRO V.RET C1413 L1401 R1418  $\triangle$ 91402 VM. BRIVE1 01403 C1414 BUFFER R1414 C1412 RI419 2 E TO M BOARB CN314 VM VH. EN RI405 RI411 DC.BIAS VM. RET ZR (VM. DY) , TO ZO BOARD CN1445

| TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1445 | TO ZO BOARD CN1 CN1415 C1405 R1407 R1412

2

ĐY (H) H+ | R1484 | R12W :RC

SUB DY

3

NC TO A BO

5 NC CN511

4 R-H (-)

CN1411 4P : VH

TO A BOARD

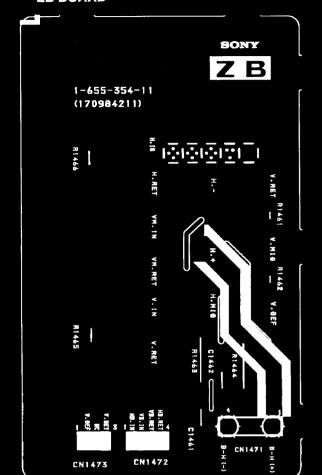
	Е	С	В	
Q1401	0	-0.5	0	
Q1402	-1.0	-0.5	-0.9	
Q1403	4.8	12.0	5.4	
		ALL VOLTAGES	ARE IN	٧

ZR BOARD TRANSISTOR VOLTAGE LIST

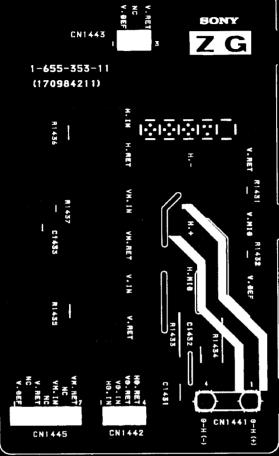
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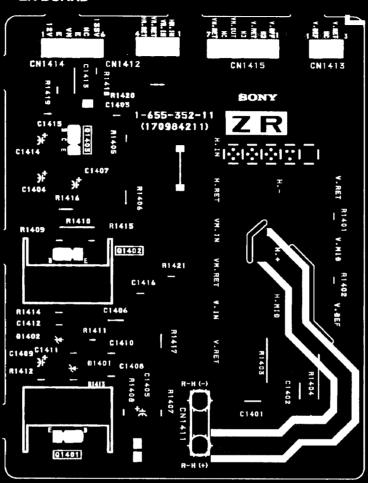
- ZB BOARD -



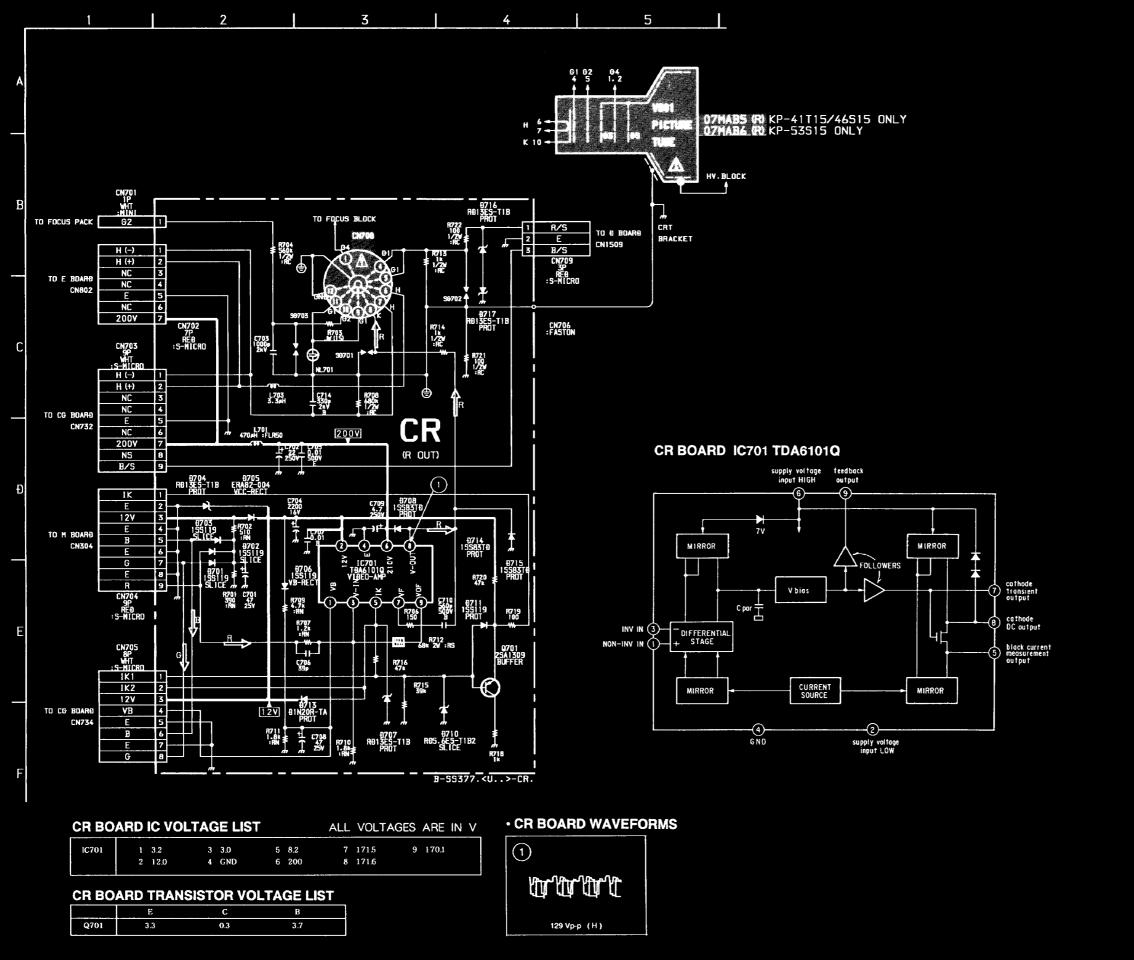


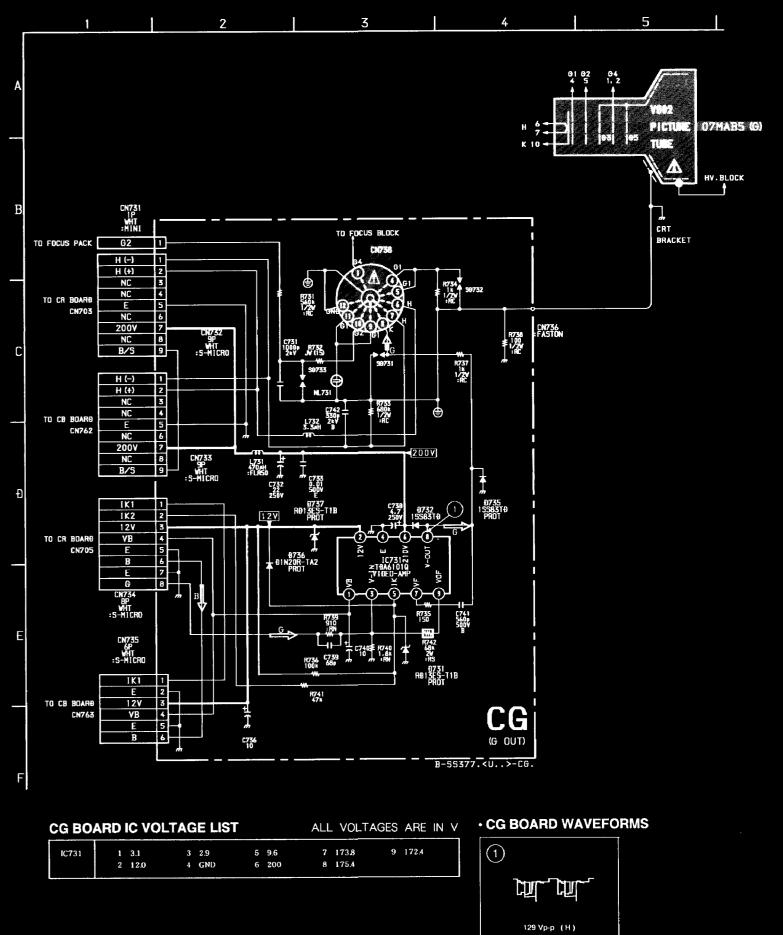


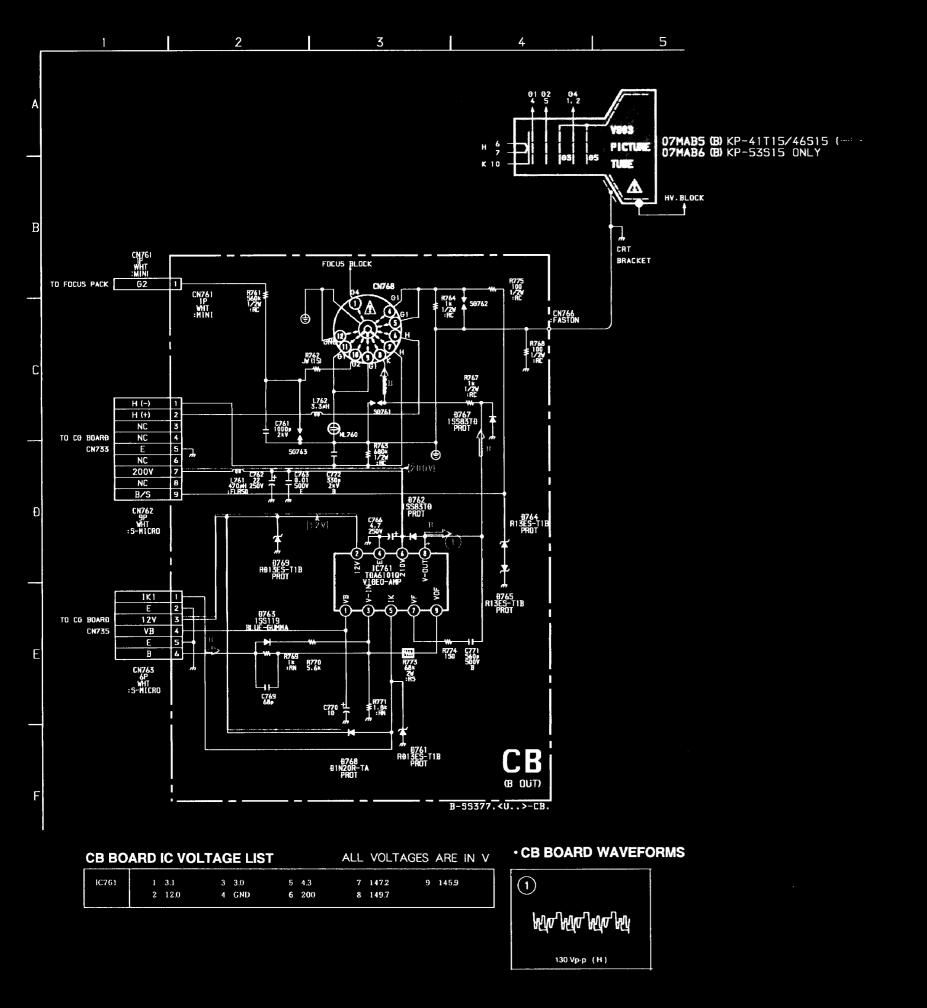
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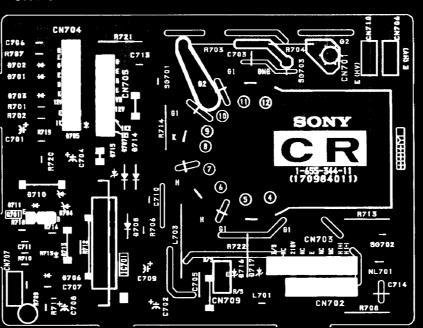
— **87** —

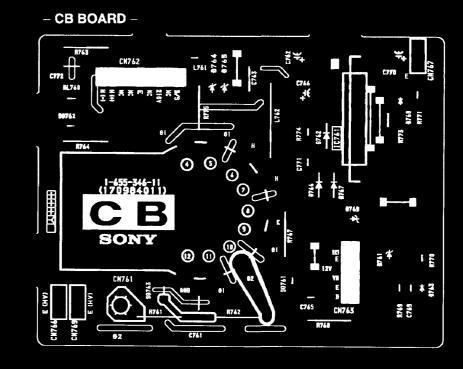


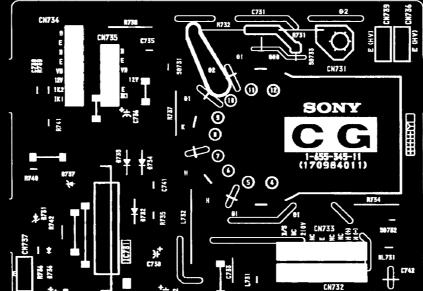










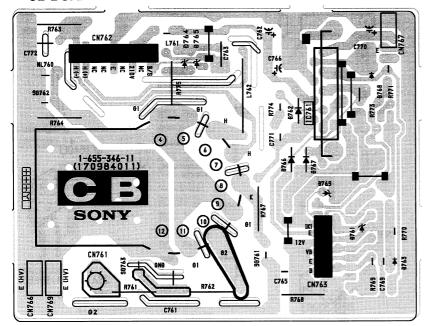


- CG BOARD -

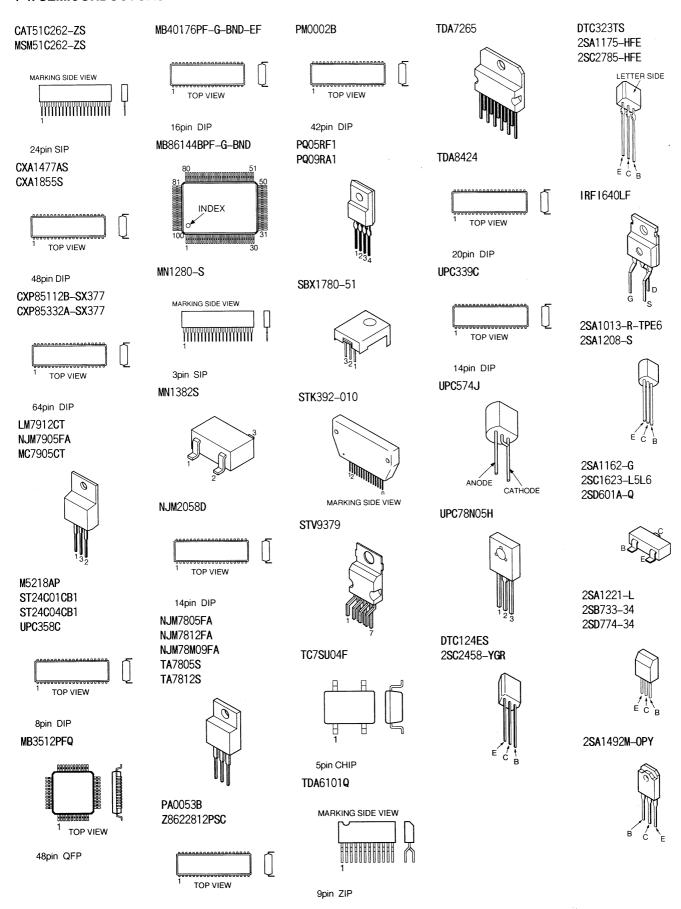
Schematic diagrams

← CB board

### - CB BOARD -

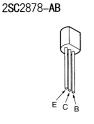


### 4-4. SEMICONDUCTORS

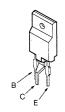


18pin DIP

2SA1837 2SC4793 2SD2348 (LBSONY-2) B C E 2SB649A-C 2SC2688-LK







2SC4834M

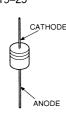


D10SBS4-F D4SBS4-F LN4SB60-F

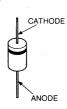


D1N20R ERA85-009 ERC91-02TP11 RD10ESB2 RD11ESB2 RD13ESB2 RD15ESB2 RD18ESB2 RD2.0ESB2 RD2.2ESB2 RD2.2ESB3

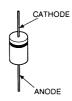
RD2. 0ESB2 RD2. 2ESB2 RD22ESB3 RD24ESB RD3. 3ESB2 RD3. 9ESB2 RD3. 9ESB2 RD5. 1ESB1 RD5. 1ESB1 RD5. 1ESB2 RD5. 6ESB1 RD5. 6ESB2 RD9. 1ESL 11ES2 1SS119-25



D1NL20 D1NL40-TR2 D2L40-TA EL1Z ERD28-08S GP08D RGP02-20EL-6394 1SS83



D2S4MF



D8LC40-F



DAN202K



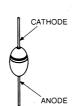
DAP202K



ERC06-15S ERC91-02 RU-1C



ERC38-06 V09G



HVU359TRF MA110 1T363

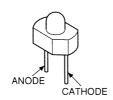


RD13M-B3 RD3.3M-B1 RD3.9M-B1 RD4.7M-B2





SLR-325VCT31



### **SECTION 5 EXPLODED VIEWS**

- NOTE:

  Items with on part number and on description are not stocked because they are seldom required for routine service.

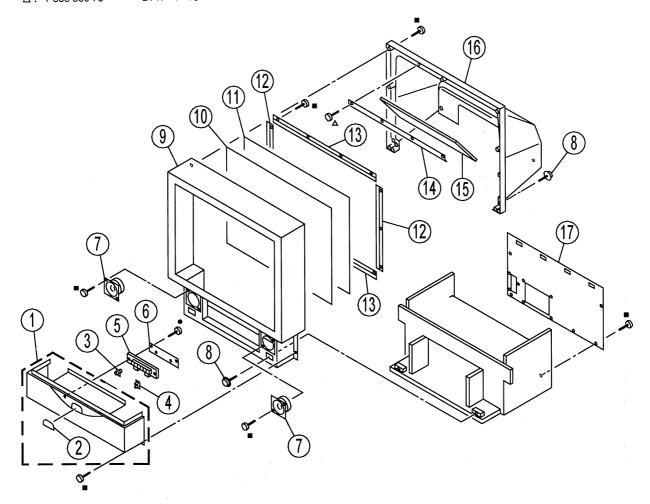
  The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ∆ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque \( \frac{\Lambda}{\Lambda} \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

### 5-1. COVER (KP-41T15)

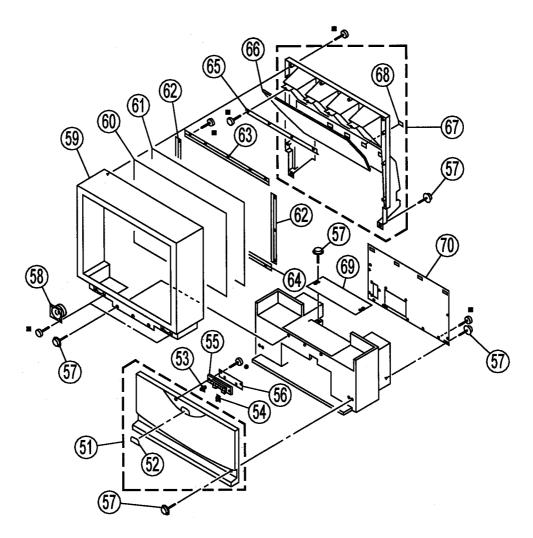
•:	7-685-648-79	+ BVTP	3×12
<b>=</b> :	7-685-663-79	+ BVTP	4×16
$\Delta$ :	7-685-660-79	+ BVTP	4×10



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO	. PART NO.	DESCRIPTION	REMARK
1 2 3 4 5	4-048-000-01 4-047-999-01	PANEL ASSY, CONTROL DOOR, CONTROL FILTER, REMOTE GUIDE, LIGHT, LED BUTTON, MULTI	2	11 12 13 14 15	4-036-092-01 4-036-091-31 *4-037-351-01	PLATE (F), DIFFUSION HOLDER (S), SCREEN HOLDER (L), SCREEN HOLDER, MIRROR MIRROR (41), REFLECTION	
6 7 8 9	1-504-785-11	HA BOARD, COMPLETE SPEAKER (10CM) SCREW (4X20), TAPPING BEZNET ASSY PLATE (L), DIFFUSION		16 17	*X-4032-607-1 *4-047-837-01		

### 5-2. COVER (KP-46S15/53S15)

●: 7-685-648-79 + BVTP 3×12 ■: 7-685-663-79 + BVTP 4×16



REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO	. PART NO.	DESCRIPTION	REMARK
51 52 53 54 55	X-4032-614-1 4-048-000-01 4-047-999-01 4-047-998-01 4-048-001-01	GRILLE ASSY, SPEAKER DOOR, CONTROL FILTER, REMOTE GUIDE, LIGHT, LED BUTTON, MULTI	152	64 65 66	*4-048-159-21 *4-048-159-31 *4-036-092-01 4-048-181-01 4-048-182-01	HOLDER (L), SCREEN (KP-46S15) HOLDER (L), SCREEN (KP-53S15) HOLDER (S), SCREEN MIRROR (53) (KP-53S15) MIRROR (46'') (KP-46S15)	
56 57 58 59	*A-1372-099-A 4-041-164-11 1-504-785-11 X-4032-617-1 X-4032-618-1	HA BOARD, COMPLETE SCREW (4X20), TAPPING SPEAKER (10CM) BEZNET ASSY (KP-46S15) BEZNET ASSY (KP-53S15)		67 68 69	*X-4032-619-1 *X-4032-620-1 4-048-150-01 *4-048-160-01 *4-048-161-01	COVER ASSY, MIRROR (KP-53S15) CAP, HOLE PLATE, SHIELD (KP-46S15)	168 168
60 61	4-036-466-11 4-037-360-11 4-036-469-11 4-048-205-11	PLATE (L), DIFFUSION (KP-53S15) PLATE (L), DIFFUSION (KP-46S15) PLATE (F), DIFFUSION (KP-53S15) PLATE (F), DUFFUSION (KP-46S15)	)	70	*4-048-168-01 *4-048-169-01	PLATE, REAR (KP-53S15) PLATE, REAR (KP-46S15)	
62 63	*4-048-152-01 *4-048-152-11 *4-048-159-01 *4-048-159-11	HOLDER (S), SCREEN (KP-46S15) HOLDER (S), SCREEN (KP-53S15) HOLDER (L), SCREEN (KP-46S15) HOLDER (L), SCREEN (KP-53S15)					

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Les composants identifies par une trame et une marque Δ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R995 R996 R997 R998 R999	1-216-677-11 1-208-814-11 1-216-065-00 1-216-073-00 1-216-051-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	12K 0.1 22K 0.1 4.7K 5% 10K 5% 1.2K 5%	50% 1/10W 50% 1/10W 1/10W 1/10W 1/10W		C1802 C1803 C1805 C1806 C1807	1-126-964-11 1-163-809-11 1-163-809-11 1-163-127-00 1-163-809-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10MF 0.047MF 0.047MF 270PF 0.047MF	20% 10% 10% 5% 10%	50V 25V 25V 50V 25V
SG801	<spa1-519-422-11< td=""><td>RK GAP&gt; GAP, SPARK</td><td></td><td></td><td></td><td>C1808 C1809 C1810 C1811 C1812</td><td>1-163-809-11 1-126-940-11 1-126-940-11 1-163-809-11 1-163-809-11</td><td>CERAMIC CHIP ELECT ELECT CERAMIC CHIP CERAMIC CHIP</td><td>0.047MF 330MF 330MF 0.047MF 0.047MF</td><td>10% 20% 20% 10% 10%</td><td>25V 16V 16V 25V 25V</td></spa1-519-422-11<>	RK GAP> GAP, SPARK				C1808 C1809 C1810 C1811 C1812	1-163-809-11 1-126-940-11 1-126-940-11 1-163-809-11 1-163-809-11	CERAMIC CHIP ELECT ELECT CERAMIC CHIP CERAMIC CHIP	0.047MF 330MF 330MF 0.047MF 0.047MF	10% 20% 20% 10% 10%	25V 16V 16V 25V 25V
<b>T801 A</b> T802 <b>T803 A</b>	<trai 8-598-939-00 1-437-209-11 1-427-980-11</trai 	NSFORMER> TRANSPORMER A TRANSFORMER, TRANSPORMER,	SSY FLYB Horizonta Ferrite (	ACK (MX-26 L drive Lot)	i31/A <b>4S</b> )	C1813 C1814 C1816 C1817 C1818	1-163-275-11 1-163-809-11 1-163-117-00 1-163-117-00 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 0.047MF 100PF 100PF 0.047MF	5% 10% 5% 5% 10%	50V 25V 50V 50V 25V
*****	************* *A-1346-296-A 4-382-854-11	D BOARD, COMP ************************************	**************************************	+++++++++++++++++++++++++++++++++++++++	*****	C1819 C1820 C1821 C1822 C1823	1-124-903-11 1-163-005-11 1-124-902-00 1-163-005-11 1-124-903-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT	1MF 470PF 0.47MF 470PF 1MF	20% 10% 20% 10% 20%	50V 50V 50V 50V 50V
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td>16V</td><td>C1824 C1825 C1826 C1827</td><td>1-124-903-11 1-126-967-11 1-126-967-11 1-163-809-11 1-163-809-11</td><td>ELECT ELECT ELECT CERAMIC CHIP</td><td>1MF 47MF 47MF 0.047MF</td><td>20% 20% 20% 10%</td><td>50V 50V 50V 25V 25V</td></cap<>	ACITOR>			16V	C1824 C1825 C1826 C1827	1-124-903-11 1-126-967-11 1-126-967-11 1-163-809-11 1-163-809-11	ELECT ELECT ELECT CERAMIC CHIP	1MF 47MF 47MF 0.047MF	20% 20% 20% 10%	50V 50V 50V 25V 25V
C1503 C1504 C1505 C1506	1-126-768-11 1-164-232-11 1-126-768-11 1-136-177-00 1-102-228-00	CERAMIC CHIP ELECT FILM CERAMIC	0.01MF 2200MF 1MF 470PF	10% 20% 5% 10%	50V 500V	C1830 C1831 C1832	1-163-809-11 1-163-809-11 1-126-940-11 1-126-940-11	CERAMIC CHIP CERAMIC CHIP BLECT BLECT	0.047MF 0.047MF 330MF 330MF	10% 10% 20% 20%	25V 25V 16V 16V
61510	1-164-232-11 1-163-117-00 1-124-122-11 1-137-398-11 1-137-423-11	FILM	0.058MF	10%	50V 50V 50V 100V 100V	C1834 C1835 C1836	1-163-809-11 1-163-809-11 1-163-809-11 1-163-809-11 1-164-489-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.047MF 0.047MF 0.047MF	10% 10% 10% 10% 10%	25V 25V 25V 25V 16V
C1513 C1514 C1515	1-137-423-11 1-163-109-00 1-163-031-11 1-163-031-11 1-136-177-00	FILM CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP FILM	0.15MF 47PF 0.01MF 0.01MF 1MF	10% 5% 5%	100V 50V 50V 50V 50V	1 (1020	1-124-122-11 1-124-122-11 1-124-903-11 1-126-967-11 1-163-117-00 1-163-117-00	ር1 <u>ር</u> ርጥ	10010	209	50V 50V 50V 50V
C1517 C1551 C1603 C1604 C1605	1-163-125-00 1-126-964-11 1-163-117-00 1-163-117-00 1-163-117-00	CERAMIC CHIP BLECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 10MF 100PF 100PF 100PF	5% 20% 5% 5%	50V 50V 50V 50V 50V	C1844 C1845	1-163-117-00 1-163-117-00 1-126-967-11 1-163-809-11 1-163-809-11	ELECT CERAMIC CHIP	47MF 0.047MF		50V 50V 50V 25V 25V
C1606 C1607 C1608 C1611		CBRAMIC CHIP CBRAMIC CHIP CBRAMIC CHIP BLECT	100PF 100PF	5% 5% 5% 20%	50V 50V 50V 50V	C1847 C1848 C1849 C1850	1-163-809-11 1-163-809-11 1-124-122-11 1-124-122-11	CERAMIC CHIP CERAMIC CHIP BLECT BLECT	0.047MF	10% 10% 20% 20%	25V 25V 50V 50V
C1612 C1613 C1615	1-104-665-11 1-124-122-11 1-104-665-11	ELECT ELECT ELECT	100MF 100MF 100MF	20% 20% 20%	25V 50V 25V	C1851 C1852 C1853	1-137-399-11 1-124-122-11 1-137-378-11	FILM ELECT FILM	0.1MF 100MF 0.22MF	5% 20% 5%	50V 50V 50V
C1617 C1619 C1620 C1622	1-126-967-11 1-104-664-11	ELECT ELECT ELECT ELECT	47MF 47MF 47MF	20% 20% 20% 20%	50V 25V 50V 25V	C1854 C1855 C1856 C1857 C1858	1-124-927-11 1-124-903-11 1-104-665-11 1-124-122-11 1-163-809-11	ELECT ELECT ELECT ELECT CERAMIC CHIP	4.7MF 1MF 100MF 100MF 0.047MF	20% 20% 20% 20% 10%	50V 50V 25V 50V 25V
C1701 C1702 C1703 C1704	1-126-935-11 1-163-809-11 1-163-099-00	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	470MF 0.047MF 18PF	20% 10% 5% 5%	16V 25V 50V 50V	C1859 C1860 C1861 C1862	1-163-809-11 1-163-809-11 1-124-122-11 1-124-903-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT	0.047MF	10% 10% 20% 20%	25V 25V 50V 50V
C1705 C1709 C1723 C1724 C1801	1-163-031-11 1-163-117-00 1-163-117-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.01MF 100PF	5% 5% 20%	50V 50V 50V 50V 50V	C1863 C1864 C1865 C1866	1-136-173-00 1-124-903-11 1-124-903-11	FILM ELECT ELECT ELECT	1 MF 1 MF 1 MF 4 7 MF	5% 20% 20% 20%	50V 50V 50V 50V
						ı					

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \(\Lambda\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PA	ART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CII .		UCTOR CHIP>		CN1756:	<b>⊧1-564-508-11</b>	PLUG, CONNECTOR 4 PLUG, CONNECTOR 5 PLUG, CONNECTOR 1	P
CJ2 1- CJ3 1- CJ4 1-	-216-295-00 -216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1501	<dio 8-719-908-03</dio 		
CJ6 1- CJ7 1- CJ8 1-	-216-295-00 -216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1502 D1503 D1505	8-719-109-89 8-719-908-03 8-719-109-88	DIODE RD5.6ESB2 DIODE GPO8D DIODE RD5.6ESB1 DIODE RD3.9ESB2	
CJ10 1- CJ11 1- CJ12 1-	-216-295-00 -216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1553 D1601 D1602	8-719-911-19 8-719-908-03 8-719-908-03	DIODE ISS119-25 DIODE ISS119-25 DIODE GPO8D DIODE GPO8D	
CJ16 1-	-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1604		DIODE GPO8D DIODE GPO8D DIODE 1SS119-25	
CJ19 1- CJ20 1- CJ21 1-	-216-295-00 -216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1812 D1814 D1825	8-719-911-19 8-719-911-19 8-719-911-19	DIODE ISS119-25 DIODE ISS119-25 DIODE ISS119-25	
CJ23 1- CJ24 1- CJ25 1-	-216-295-00 -216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1827 D1931 D1932	8-719-109-68 8-719-110-60 8-719-110-60	DIODE 1SS119-25 DIODE RD3.6ESB1 DIODE RD24ESB DIODE RD24ESB DIODE RD24ESB	
CJ27 1	-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		† D1936		DIODE RD24ESB DIODE RD24ESB DIODE RD24ESB	
CJ29 1- CJ30 1- CJ31 1-	-216-295-00 -216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1942	8-719-110-60 8-719-110-60	DIODE RD24ESB DIODE RD24ESB	
CJ35 1- CJ36 1- CJ37 1-	-216-295-00 -216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1947 D1948 D1949	8-719-110-60 8-719-110-36 8-719-110-60	DIODE RD24ESB DIODE RD13ESB2 DIODE RD24ESB DIODE RD13ESB2	
CJ39 1 CJ42 1	-216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP				DIODE RD13ESB2 DIODE RD13ESB2	
CJ44 1 CJ45 1	-216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		P1601A		PUSE, GLASS TUBE	(3.15A/125V)
CJ48 1: CJ50 1: CJ51 1:	-216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		F1602A	<u> </u>	HOLDER, FUSE; F16	(3.15A/125V)
CJ55 1 CJ57 1 CJ58 1	-216-295-00 -216-295-00 -216-295-00 -216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		IC1601 IC1602 IC1701	8-749-010-88	IC STK392-010 IC STK392-010 IC CXP85112B-6139	3
CJ62 1	-216-295-00 -216-295-00 -216-295-00	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		IC1802   IC1803   IC1804	8-759-327-52 8-759-327-51 8-759-012-67 8-759-231-53 8-759-327-52	IC PA0053B IC MC7905CT IC TA7805S	
		NECTOR>		1	6 8-759-327-51		
CN1513*1 CN1612*1 CN1642*1	-564-506-11 -564-507-11 -564-507-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P		IC1807 IC1808 IC1809 IC1931	7 8-759-929-65 8 8-759-701-79 9 8-759-327-52 8-759-711-28	IC LM7912CT IC NJM7812FA IC PM0002B IC NJM2058D	
				IC1932	2 8-759-711-28	IC NJM2058D	